SEQUENCE LISTING

<110> NEELAM, Beena et al

<120> ISOLATED HUMAN RAS-LIKE PROTEINS,
   NUCLEIC ACID MOLECULES ENCODING THESE HUMAN RAS-LIKE
   PROTEINS, AND USES THEREOF

<130> CL001112

<140> 09/778,963
<141> 2001-02-08

<160> 5

<170> FastSEQ for Windows Version 4.0

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<212> DNA
<213> Human

<400> 1
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accatcgagg acttccaccg taaggtatac aacatccgcg gcgacatgta ccagctcgac 420
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gcggagctgc ccatggtcat ctgtggcaac aagaacgacc acggcgagct gtgccgccag 660
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gcacaagcgt ggggtgggca ggccaggact gctttttttt aatgctccca tttcacagag 1980
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gataccaccg agactcggag gggacacgat gagcaccagg ccccaccttt gtcccctagc 2040
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catttattaa gcacctactg ggtgctgggt tcactgtgtc ctaggaaacc aagagggtcc 2160
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<212> PRT
<213> Human

<400> 2
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Ser Ser Ile Val Ser Arg Phe Leu Asn Gly Arg Phe Glu Asp Gln Tyr
            35                  40                  45
Thr Pro Thr Ile Glu Asp Phe His Arg Lys Val Tyr Asn Ile Arg Gly
        50                  55                  60
Asp Met Tyr Gln Leu Asp Ile Leu Asp Thr Ser Gly Asn His Pro Phe
65                  70                  75                  80
Pro Ala Met Arg Arg Leu Ser Ile Leu Thr Gly Asp Val Phe Ile Leu
                85                  90                  95
Val Phe Ser Leu Asp Asn Arg Glu Ser Phe Asp Glu Val Lys Arg Leu
                100                 105                 110
Gln Lys Gln Ile Leu Glu Val Lys Ser Cys Leu Lys Asn Lys Thr Lys
            115                 120                 125
Glu Ala Ala Glu Leu Pro Met Val Ile Cys Gly Asn Lys Asn Asp His
            130                 135                 140
Gly Glu Leu Cys Arg Gln Val Pro Thr Thr Glu Ala Glu Leu Leu Val
145                 150                 155                 160
Ser Gly Asp Glu Asn Ser Ala Tyr Phe Glu Val Ser Ala Lys Lys Asn
                165                 170                 175
Thr Asn Val Asp Glu Met Phe Tyr Val Leu Phe Ser Met Ala Lys Leu
                180                 185                 190
Pro His Glu Met Ser Pro Ala Leu His Arg Lys Ile Ser Val Gln Tyr
            195                 200                 205
Gly Asp Ala Phe His Pro Arg Pro Phe Cys Met Arg Arg Val Lys Glu
        210                 215                 220
Met Asp Ala Tyr Gly Met Val Ser Pro Phe Ala Arg Arg Pro Ser Val
225                 230                 235                 240
Asn Ser Asp Leu Lys Tyr Ile Lys Ala Lys Val Leu Arg Glu Gly Gln
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2

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Ala Arg Glu Arg Asp Lys Cys Thr Ile Gln
                          260                   265
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<211> 11221
<212> PRT
<213> Human

<400> 3
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                  20              25                  30
Thr Gly Cys Cys Thr Cys Cys Thr Cys Thr Cys Thr Cys Thr Gly Thr
          35                  40                  45
Cys Thr Cys Cys Cys Thr Gly Cys Cys Thr Cys Cys Thr Cys Thr Gly
      50                  55                  60
Thr Cys Thr Gly Ala Cys Thr Cys Cys Cys Thr Gly Cys Cys Thr Cys
65                  70                  75                      80
Cys Cys Cys Thr Cys Thr Cys Thr Gly Thr Cys Thr Cys Ala Cys Thr
                  85                  90                  95
Gly Cys Cys Thr Cys Cys Thr Cys Thr Cys Thr Cys Thr Gly Ala Cys
              100                 105                 110
Thr Cys Thr Cys Thr Gly Cys Cys Thr Cys Cys Thr Cys Thr Cys Thr
          115                 120                 125
Cys Thr Gly Ala Cys Thr Cys Cys Cys Thr Gly Cys Cys Thr Cys Cys
      130                 135                 140
Thr Cys Thr Cys Thr Cys Thr Gly Ala Thr Thr Cys Cys Cys Thr Gly
145                 150                  155                  160
Cys Cys Thr Cys Thr Thr Thr Gly Ala Cys Cys Cys Thr Cys Thr Gly
              165                 170                 175
Cys Cys Thr Cys Cys Thr Cys Thr Cys Thr Thr Thr Gly Ala Cys Thr
          180                 185                 190
Cys Cys Cys Thr Gly Cys Cys Thr Cys Cys Thr Cys Thr Cys Thr Cys
          195                 200                 205
Cys Gly Ala Thr Thr Cys Thr Cys Thr Gly Cys Gly Thr Cys Thr Thr
      210                 215                 220
Thr Gly Ala Cys Thr Cys Cys Cys Thr Gly Cys Cys Thr Cys Cys Thr
225                 230                 235                  240
Cys Thr Cys Thr Cys Thr Gly Ala Cys Thr Cys Cys Cys Thr Gly Ala
              245                 250                 255
Ala Gly Cys Thr Cys Ala Thr Thr Cys Ala Gly Thr Cys Ala Thr Thr
          260                 265                 270
Gly Cys Thr Ala Thr Cys Ala Ala Cys Thr Cys Gly Thr Cys Thr Gly
          275                 280                 285
Thr Ala Cys Cys Ala Ala Gly Cys Thr Cys Thr Ala Gly Gly Cys Thr
      290                 295                 300
Gly Gly Ala Gly Gly Cys Thr Gly Gly Gly Cys Ala Gly Gly Gly Cys
305                 310                 315                  320
Ala Ala Thr Gly Ala Thr Gly Gly Ala Gly Ala Cys Ala Ala Ala Thr
              325                 330                 335
Ala Cys Thr Gly Thr Cys Cys Cys Thr Gly Gly Gly Ala Gly Cys Thr
          340                 345                 350
Thr Cys Thr Gly Gly Cys Cys Cys Cys Thr Thr Thr Cys Cys Cys Ala
          355                 360                 365
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3

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Thr Cys Cys Thr Gly Thr Thr Thr Ala Gly Ala Cys Ala Gly Ala Ala
    370                 375                 380
Gly Thr Gly Ala Cys Cys Gly Cys Cys Ala Gly Cys Ala Gly Ala Gly
385                 390                 395                 400
Thr Cys Ala Ala Gly Cys Thr Gly Thr Cys Thr Gly Cys Ala Gly Ala
                405                 410                 415
Ala Gly Gly Ala Cys Thr Thr Gly Gly Gly Ala Gly Gly Gly Gly
                420                 425                 430
Gly Cys Thr Gly Thr Cys Ala Thr Gly Gly Gly Thr Ala Gly Gly
                435                 440                 445
Gly Cys Thr Thr Cys Thr Thr Thr Cys Cys Cys Cys Cys Cys Ala Thr
                450                 455                 460
Cys Thr Cys Thr Gly Cys Thr Gly Ala Ala Gly Gly Cys Cys Cys Ala
465                 470                 475                 480
Gly Gly Cys Thr Gly Gly Cys Thr Gly Ala Gly Ala Cys Ala Gly Cys
                485                 490                 495
Cys Cys Cys Gly Gly Cys Ala Gly Ala Gly Ala Cys Thr Gly Ala Gly
                500                 505                 510
Ala Ala Gly Gly Gly Cys Thr Cys Cys Cys Thr Gly Cys Thr Gly Thr
                515                 520                 525
Gly Gly Thr Cys Thr Gly Gly Cys Ala Gly Cys Cys Cys Cys Cys Thr
                530                 535                 540
Cys Thr Cys Cys Ala Cys Cys Cys Thr Cys Cys Thr Cys Thr Cys Thr
545                 550                 555                 560
Cys Thr Cys Ala Thr Thr Thr Cys Cys Thr Gly Cys Cys Thr Cys Cys
                565                 570                 575
Cys Ala Cys Ala Cys Gly Thr Ala Thr Gly Cys Cys Cys Thr Gly Gly
                580                 585                 590
Gly Cys Ala Cys Cys Thr Cys Ala Thr Cys Ala Gly Gly Gly Cys Thr
                595                 600                 605
Gly Cys Cys Cys Thr Ala Gly Gly Gly Ala Gly Gly Gly Cys Cys
                610                 615                 620
Cys Thr Cys Cys Thr Thr Gly Gly Cys Ala Cys Ala Gly Cys Cys Cys
625                 630                 635                 640
Cys Thr Gly Gly Gly Cys Cys Ala Gly Thr Cys Ala Gly Gly Thr Gly
                645                 650                 655
Gly Thr Thr Gly Ala Gly Gly Cys Thr Gly Ala Gly Gly Ala Gly Ala
                660                 665                 670
Gly Ala Ala Gly Gly Thr Cys Cys Cys Ala Gly Ala Gly Thr Gly Gly
                675                 680                 685
Gly Gly Cys Thr Thr Cys Ala Gly Gly Cys Ala Ala Cys Cys Cys
                690                 695                 700
Ala Ala Ala Gly Ala Cys Ala Gly Ala Gly Cys Cys Cys Thr Thr Thr
705                 710                 715                 720
Gly Cys Cys Ala Thr Thr Thr Gly Ala Thr Gly Ala Ala Thr Gly Cys
                725                 730                 735
Ala Cys Ala Gly Ala Cys Cys Cys Thr Thr Thr Ala Thr Thr Gly Ala
                740                 745                 750
Gly Cys Cys Cys Cys Thr Gly Cys Thr Cys Thr Gly Thr Thr Cys Ala
                755                 760                 765
Thr Gly Gly Cys Ala Thr Gly Gly Cys Ala Gly Thr Thr Thr Thr Gly
                770                 775                 780
Thr Gly Gly Gly Ala Thr Ala Ala Ala Thr Thr Cys Ala Ala Ala Gly
785                 790                 795                 800
Ala Cys Ala Gly Cys Thr Thr Thr Ala Gly Gly Thr Gly Gly Gly Ala
                805                 810                 815
Gly Cys Thr Gly Gly Gly Thr Gly Gly Gly Gly Gly Ala Thr Gly Thr
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4

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                  820                       825                       830
Gly Gly Gly Gly Gly Thr Cys Thr Thr Ala Gly Gly Cys Thr Thr Gly
            835                       840                       845
Ala Ala Cys Thr Ala Cys Thr Ala Cys Cys Cys Ala Gly Cys Cys Thr
      850                       855                       860
Cys Cys Thr Thr Thr Gly Thr Thr Ala Ala Cys Cys Ala Ala Gly Thr
865                       870                       875                       880
Ala Gly Cys Thr Ala Gly Thr Cys Ala Cys Gly Thr Ala Gly Cys Cys
                  885                       890                       895
Thr Thr Cys Thr Gly Ala Gly Cys Thr Cys Gly Gly Gly Gly Cys Ala
                  900                       905                       910
Gly Ala Cys Cys Ala Cys Cys Thr Gly Gly Gly Ala Thr Cys Ala Ala
            915                       920                       925
Ala Cys Cys Thr Cys Thr Cys Cys Thr Cys Thr Gly Cys Thr Gly Gly
      930                       935                       940
Thr Thr Ala Cys Thr Gly Gly Cys Thr Gly Thr Gly Cys Ala Ala Cys
945                       950                       955                       960
Thr Gly Thr Ala Ala Gly Cys Ala Ala Gly Thr Ala Ala Thr Thr Thr
                  965                       970                       975
Ala Ala Cys Cys Thr Cys Thr Cys Thr Gly Thr Gly Cys Cys Thr Cys
            980                       985                       990
Ala Gly Thr Thr Thr Cys Cys Thr Cys Ala Thr Cys Thr Gly Thr Ala
            995                       1000                      1005
Ala Ala Thr Thr Gly Gly Ala Gly Ala Ala Thr Ala Ala Cys Ala Cys
      1010                      1015                      1020
Cys Ala Cys Cys Thr Gly Cys Thr Thr Thr Cys Thr Gly Gly Gly Gly
1025                      1030                      1035                      1040
Thr Thr Ala Thr Gly Ala Ala Gly Gly Gly Ala Gly Ala Ala Ala Thr
                  1045                      1050                      1055
Ala Gly Gly Thr Thr Ala Ala Cys Ala Thr Gly Thr Gly Thr Gly Cys
            1060                      1065                      1070
Ala Gly Cys Ala Cys Thr Thr Ala Gly Ala Ala Cys Ala Cys Thr Cys
            1075                      1080                      1085
Thr Gly Gly Cys Ala Thr Ala Thr Thr Thr Ala Gly Cys Thr Gly
            1090                      1095                      1100
Cys Ala Ala Ala Ala Thr Gly Ala Ala Thr Gly Cys Cys Ala Gly Cys
1105                      1110                      1115                      1120
Thr Ala Thr Gly Ala Thr Thr Ala Thr Thr Thr Cys Thr Ala Thr Ala
            1125                      1130                      1135
Cys Thr Thr Ala Gly Thr Gly Cys Gly Gly Gly Gly Cys Thr Thr Gly
            1140                      1145                      1150
Gly Cys Ala Cys Ala Cys Thr Gly Cys Ala Thr Gly Gly Gly Cys Thr
            1155                      1160                      1165
Cys Ala Ala Gly Thr Gly Gly Cys Ala Gly Cys Ala Gly Thr Thr Gly
1170                      1175                      1180
Thr Cys Gly Thr Cys Cys Thr Thr Gly Thr Gly Gly Cys Thr Cys Cys
1185                      1190                      1195                      1200
Ala Gly Gly Cys Cys Thr Gly Gly Gly Gly Thr Cys Cys Gly Cys Cys
                  1205                      1210                      1215
Gly Thr Gly Thr Gly Cys Thr Gly Ala Gly Cys Thr Gly Gly Cys Thr
            1220                      1225                      1230
Thr Ala Thr Thr Gly Thr Gly Cys Ala Cys Gly Thr Cys Cys Cys Thr
            1235                      1240                      1245
Thr Thr Gly Thr Gly Ala Thr Thr Cys Ala Thr Thr Cys Ala Thr Cys
      1250                      1255                      1260
Gly Ala Ala Gly Thr Cys Ala Cys Ala Thr Thr Ala Gly Thr Ala Gly
1265                      1270                      1275                      1280
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5

Cys Thr Thr Ala Gly Ala Ala Gly Thr Gly Ala Cys Cys Gly Thr Ala
          1285   1290   1295
Gly Thr Gly Gly Gly Ala Gly Cys Ala Thr Thr Thr Ala Cys Gly Cys
          1300   1305   1310
Cys Ala Thr Gly Gly Ala Ala Ala Thr Thr Gly Gly Cys Ala Ala Thr
          1315   1320   1325
Ala Gly Gly Gly Cys Thr Thr Thr Ala Ala Cys Ala Ala Ala Gly
     1330   1335   1340
Gly Thr Ala Thr Thr Thr Thr Thr Gly Ala Gly Ala Gly Cys Cys Gly
1345   1350   1355   1360
Gly Thr Thr Thr Cys Cys Thr Gly Cys Ala Cys Ala Gly Ala Gly Gly
          1365   1370   1375
Cys Thr Gly Gly Thr Ala Gly Thr Thr Gly Gly Gly Cys Ala Gly Gly
          1380   1385   1390
Gly Thr Gly Ala Gly Cys Ala Gly Ala Thr Cys Cys Ala Gly Ala Thr
          1395   1400   1405
Gly Thr Gly Thr Gly Cys Cys Ala Gly Gly Gly Ala Cys Thr Cys Gly
          1410   1415   1420
Cys Ala Cys Gly Cys Ala Gly Gly Cys Ala Ala Thr Cys Thr Cys Thr
1425   1430   1435   1440
Cys Cys Ala Cys Cys Thr Cys Cys Ala Gly Thr Gly Gly Cys Cys Ala
          1445   1450   1455
Thr Cys Thr Cys Ala Gly Ala Cys Cys Thr Thr Ala Gly Cys Thr Thr
          1460   1465   1470
Cys Ala Thr Gly Ala Thr Ala Gly Cys Cys Ala Gly Gly Ala Ala Gly
          1475   1480   1485
Cys Gly Ala Thr Gly Gly Thr Gly Thr Thr Gly Gly Ala Ala Ala Gly
          1490   1495   1500
Cys Gly Cys Cys Thr Thr Gly Gly Gly Thr Cys Ala Ala Thr Gly Gly
1505   1510   1515   1520
Gly Cys Gly Ala Gly Gly Cys Ala Cys Thr Cys Ala Ala Gly Gly Ala
          1525   1530   1535
Ala Ala Cys Cys Gly Ala Cys Thr Thr Gly Gly Gly Gly Cys Ala Thr
          1540   1545   1550
Cys Cys Thr Gly Gly Gly Gly Thr Gly Gly Gly Gly Ala Cys Cys Gly
          1555   1560   1565
Ala Gly Thr Thr Thr Gly Gly Gly Cys Ala Cys Ala Thr Ala Cys Ala
1570   1575   1580
Gly Cys Cys Cys Thr Thr Thr Gly Thr Gly Thr Gly Ala Ala Thr Thr
1585   1590   1595   1600
Thr Ala Ala Ala Ala Ala Cys Ala Gly Thr Gly Cys Cys Thr Thr Thr
          1605   1610   1615
Thr Cys Cys Thr Cys Thr Ala Cys Ala Cys Ala Ala Gly Ala Thr Gly
          1620   1625   1630
Cys Cys Cys Thr Thr Thr Cys Gly Thr Cys Thr Gly Gly Gly Ala Thr
          1635   1640   1645
Ala Cys Ala Gly Cys Cys Cys Cys Ala Cys Cys Thr Cys Thr Gly
     1650   1655   1660
Gly Gly Ala Thr Gly Cys Ala Gly Cys Cys Cys Cys Cys Ala Cys Thr
1665   1670   1675   1680
Thr Gly Cys Cys Cys Ala Cys Cys Cys Ala Gly Cys Cys Ala Thr Gly
          1685   1690   1695
Cys Gly Cys Cys Thr Thr Gly Thr Gly Cys Ala Gly Thr Ala Thr Cys
          1700   1705   1710
Cys Ala Ala Cys Cys Thr Gly Cys Ala Cys Ala Ala Cys Cys Thr Gly
          1715   1720   1725
Thr Gly Gly Cys Ala Gly Cys Cys Thr Gly Thr Gly Gly Ala Ala Gly

6

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        1730                1735                1740
Ala Cys Cys Gly Ala Gly Gly Gly Gly Ala Thr Thr Gly Ala Thr Ala
1745                1750                1755                1760
Thr Thr Thr Cys Ala Gly Cys Ala Gly Gly Cys Cys Thr Gly Thr Gly
                1765                1770                1775
Cys Cys Cys Ala Thr Thr Thr Gly Cys Ala Gly Thr Thr Cys Ala Gly
            1780                1785                1790
Gly Gly Gly Cys Thr Gly Gly Ala Ala Ala Gly Cys Thr Cys Thr Cys
            1795                1800                1805
Cys Thr Cys Thr Gly Gly Ala Gly Ala Gly Gly Gly Gly Ala Gly Gly
        1810                1815                1820
Gly Ala Thr Thr Cys Cys Thr Gly Cys Ala Ala Gly Gly Gly Thr Gly
1825                1830                1835                1840
Ala Gly Gly Ala Gly Ala Thr Cys Ala Gly Ala Gly Ala Gly Gly Cys
                1845                1850                1855
Cys Thr Thr Cys Ala Gly Ala Gly Ala Gly Cys Ala Gly Gly Thr Gly
                1860                1865                1870
Gly Cys Ala Cys Thr Thr Gly Ala Gly Cys Cys Ala Gly Ala Cys Cys
            1875                1880                1885
Cys Thr Gly Ala Ala Ala Cys Ala Thr Ala Ala Gly Gly Gly Gly Ala
        1890                1895                1900
Ala Gly Ala Gly Gly Gly Thr Gly Thr Thr Cys Thr Gly Cys Ala Gly
1905                1910                1915                1920
Ala Gly Gly Gly Gly Thr Gly Gly Cys Ala Thr Gly Ala Gly Cys Ala
                1925                1930                1935
Ala Ala Gly Gly Ala Gly Thr Gly Gly Ala Gly Gly Cys Thr Gly Ala
                1940                1945                1950
Thr Cys Thr Cys Ala Gly Cys Ala Gly Ala Gly Cys Thr Cys Ala Ala
            1955                1960                1965
Ala Cys Thr Gly Ala Cys Gly Ala Gly Gly Gly Thr Gly Ala Cys Thr
        1970                1975                1980
Gly Gly Gly Gly Thr Cys Ala Gly Gly Gly Gly Thr Thr Cys Thr Gly
1985                1990                1995                2000
Gly Gly Gly Cys Gly Gly Gly Gly Ala Thr Thr Cys Thr Gly Gly Thr
                2005                2010                2015
Gly Gly Gly Cys Gly Cys Thr Ala Ala Gly Gly Thr Ala Gly Gly Ala
            2020                2025                2030
Ala Ala Gly Gly Ala Gly Gly Gly Ala Gly Gly Gly Cys Thr Gly Gly
            2035                2040                2045
Gly Cys Thr Gly Thr Gly Ala Ala Gly Ala Gly Cys Cys Thr Thr Thr
        2050                2055                2060
Gly Gly Gly Gly Thr Gly Ala Gly Cys Cys Thr Gly Gly Thr Gly Gly
2065                2070                2075                2080
Ala Gly Cys Cys Thr Gly Cys Gly Gly Gly Thr Thr Thr Gly Cys Thr
                2085                2090                2095
Thr Ala Thr Ala Cys Ala Ala Gly Ala Gly Cys Thr Thr Gly Gly Ala
            2100                2105                2110
Thr Cys Cys Ala Thr Gly Thr Cys Gly Gly Cys Cys Thr Cys Thr Thr
            2115                2120                2125
Thr Cys Ala Thr Gly Ala Gly Gly Thr Cys Ala Ala Gly Ala Gly Gly
        2130                2135                2140
Cys Thr Cys Cys Cys Ala Thr Ala Gly Ala Ala Ala Gly Cys Thr Cys
2145                2150                2155                2160
Thr Gly Ala Gly Thr Thr Thr Gly Cys Cys Cys Cys Ala Gly Ala Ala
                2165                2170                2175
Cys Cys Ala Thr Ala Ala Cys Cys Cys Thr Thr Gly Gly Ala Gly Ala
            2180                2185                2190
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7

Thr Gly Gly Gly Ala Gly Gly Gly Ala Ala Gly Cys Thr Thr Gly Ala
          2195   2200   2205
Gly Cys Cys Ala Gly Cys Cys Ala Thr Gly Gly Gly Thr Cys Gly Thr
          2210   2215   2220
Thr Cys Cys Cys Cys Ala Thr Thr Cys Cys Ala Cys Ala Thr Cys Cys
2225   2230   2235   2240
Thr Cys Thr Ala Cys Thr Cys Cys Gly Gly Gly Cys Cys Thr Cys Thr
                    2245   2250   2255
Gly Gly Gly Thr Cys Thr Cys Cys Thr Gly Gly Ala Gly Gly Cys Ala
          2260   2265   2270
Ala Gly Thr Ala Ala Ala Cys Ala Cys Cys Thr Ala Gly Gly Gly Cys
          2275   2280   2285
Cys Thr Gly Gly Gly Ala Gly Gly Cys Ala Ala Ala Ala Ala Thr Ala
          2290   2295   2300
Thr Cys Cys Gly Gly Gly Cys Ala Gly Gly Thr Cys Ala Thr Gly Gly
2305   2310   2315   2320
Ala Gly Cys Gly Gly Ala Gly Gly Gly Ala Gly Cys Cys Cys Gly Cys
          2325   2330   2335
Cys Ala Gly Ala Thr Gly Cys Ala Gly Ala Gly Cys Ala Cys Ala Gly
          2340   2345   2350
Gly Thr Cys Thr Ala Ala Ala Gly Gly Thr Gly Gly Gly Thr Cys Cys
          2355   2360   2365
Thr Cys Cys Thr Gly Ala Gly Gly Thr Gly Gly Cys Thr Gly Cys Ala
          2370   2375   2380
Gly Gly Ala Gly Cys Ala Ala Cys Cys Cys Cys Ala Gly Gly Cys Ala
2385   2390   2395   2400
Thr Thr Gly Gly Gly Cys Thr Thr Gly Gly Ala Gly Cys Ala Thr Gly
                    2405   2410   2415
Cys Gly Gly Thr Gly Thr Gly Gly Ala Cys Ala Thr Ala Gly Cys Cys
          2420   2425   2430
Thr Thr Cys Cys Cys Thr Thr Cys Thr Thr Cys Cys Cys Ala Gly Gly
          2435   2440   2445
Ala Gly Gly Gly Cys Thr Gly Ala Ala Thr Gly Gly Cys Cys Ala Cys
          2450   2455   2460
Ala Gly Ala Ala Cys Cys Ala Cys Cys Cys Cys Thr Gly Cys Cys
2465   2470   2475   2480
Cys Cys Ala Gly Gly Cys Thr Thr Ala Ala Gly Ala Ala Ala Thr Gly
                    2485   2490   2495
Cys Ala Thr Gly Cys Thr Ala Gly Thr Gly Cys Cys Thr Thr Cys Cys
          2500   2505   2510
Cys Cys Ala Thr Gly Thr Cys Thr Thr Ala Thr Cys Cys Thr Ala Gly
          2515   2520   2525
Ala Ala Thr Cys Ala Cys Ala Gly Gly Cys Thr Cys Cys Gly Gly Gly
          2530   2535   2540
Ala Ala Ala Gly Cys Cys Ala Gly Ala Thr Gly Gly Ala Thr Gly Ala
2545   2550   2555   2560
Ala Cys Cys Ala Gly Gly Gly Ala Ala Ala Gly Ala Ala Cys Gly Gly
                    2565   2570   2575
Ala Thr Thr Cys Thr Cys Ala Cys Cys Ala Thr Ala Gly Ala Thr Ala
          2580   2585   2590
Cys Cys Ala Thr Thr Thr Thr Thr Gly Ala Gly Ala Thr Thr Thr Cys
          2595   2600   2605
Ala Cys Cys Ala Thr Gly Thr Gly Cys Thr Gly Ala Gly Cys Cys Cys
          2610   2615   2620
Thr Thr Thr Gly Cys Ala Ala Cys Ala Ala Cys Thr Cys Thr Ala Thr
2625   2630   2635   2640
Gly Ala Ala Thr Thr Gly Gly Gly Cys Thr Cys Ala Thr Thr Thr Thr

8

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Gly Cys Ala Gly Ala Thr Gly Ala Gly Ala Ala Ala Ala Gly Thr Gly
                 2660                    2665                2670
Ala Cys Thr Thr Cys Thr Ala Gly Ala Gly Ala Gly Gly Thr Thr Ala
            2675                    2680                2685
Ala Gly Cys Thr Ala Cys Thr Ala Gly Cys Cys Cys Ala Ala Gly Ala
            2690                    2695                2700
Thr Cys Ala Gly Thr Ala Gly Cys Thr Ala Gly Ala Gly Gly Cys Ala
2705                     2710                2715                     2720
Ala Gly Gly Cys Ala Ala Gly Gly Ala Thr Thr Cys Ala Ala Ala Thr
                 2725                    2730                2735
Cys Cys Cys Ala Gly Gly Ala Gly Thr Cys Cys Gly Gly Thr Gly Cys
            2740                    2745                2750
Thr Thr Gly Cys Ala Thr Ala Ala Ala Thr Gly Ala Ala Ala Gly Gly
            2755                    2760                2765
Ala Thr Gly Ala Ala Thr Gly Ala Ala Cys Gly Gly Ala Thr Ala Thr
       2770                    2775                2780
Thr Gly Ala Gly Thr Gly Ala Gly Thr Gly Ala Gly Thr Gly Gly Ala
2785                     2790                2795                     2800
Thr Gly Ala Ala Gly Gly Ala Ala Gly Gly Ala Gly Thr Ala Ala Ala
                 2805                    2810                2815
Gly Gly Ala Gly Ala Gly Gly Gly Cys Ala Thr Gly Ala Ala Thr Gly
            2820                    2825                2830
Ala Ala Thr Gly Ala Gly Ala Gly Gly Gly Thr Ala Gly Ala Ala Cys
            2835                    2840                2845
Thr Cys Cys Ala Ala Gly Ala Cys Cys Cys Cys Thr Thr Ala Gly Ala
       2850                    2855                2860
Ala Cys Cys Thr Cys Gly Thr Cys Thr Gly Ala Thr Gly Thr Thr Cys
2865                     2870                2875                     2880
Cys Cys Ala Thr Thr Thr Thr Ala Cys Ala Gly Ala Cys Ala Gly Ala
            2885                    2890                2895
Ala Ala Ala Cys Thr Gly Ala Gly Thr Cys Cys Thr Ala Gly Ala Cys
       2900                    2905                2910
Ala Gly Ala Gly Gly Cys Cys Thr Ala Gly Ala Gly Gly Ala Gly Gly
            2915                    2920                2925
Cys Cys Ala Ala Gly Ala Gly Gly Thr Gly Gly Thr Gly Gly Gly Gly
       2930                    2935                2940
Cys Cys Ala Gly Gly Thr Cys Gly Gly Gly Gly Gly Gly Gly Cys Cys
2945                     2950                2955                     2960
Cys Thr Gly Ala Thr Gly Cys Cys Thr Gly Cys Thr Thr Cys Thr Cys
                 2965                    2970                2975
Thr Cys Gly Cys Thr Thr Thr Gly Thr Thr Gly Cys Ala Gly Cys Cys
            2980                    2985                2990
Cys Cys Gly Ala Gly Cys Cys Ala Thr Gly Ala Thr Gly Ala Ala Gly
       2995                    3000                3005
Ala Cys Thr Thr Thr Gly Thr Cys Cys Ala Gly Cys Gly Gly Gly Ala
       3010                    3015                3020
Ala Cys Thr Gly Cys Ala Cys Gly Cys Thr Cys Ala Gly Thr Gly Thr
3025                     3030                3035                     3040
Gly Cys Cys Cys Gly Cys Cys Ala Ala Ala Ala Cys Thr Cys Ala
            3045                    3050                3055
Thr Ala Cys Cys Gly Cys Ala Thr Gly Gly Thr Gly Gly Thr Gly Cys
       3060                    3065                3070
Thr Gly Gly Gly Thr Gly Cys Cys Thr Cys Thr Cys Gly Gly Gly Thr
            3075                    3080                3085
Gly Gly Gly Cys Ala Ala Gly Ala Gly Cys Thr Cys Cys Ala Thr Cys
       3090                    3095                3100
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9

Gly Thr Gly Thr Cys Thr Cys Gly Cys Thr Thr Cys Cys Thr Cys Ala
3105   3110   3115   3120
Ala Thr Gly Gly Cys Cys Gly Cys Thr Thr Thr Gly Ala Gly Gly Ala
            3125   3130   3135
Cys Cys Ala Gly Thr Ala Cys Ala Cys Ala Cys Cys Cys Ala Cys Cys
            3140   3145   3150
Ala Thr Cys Gly Ala Gly Gly Ala Cys Thr Thr Cys Cys Ala Cys Cys
            3155   3160   3165
Gly Thr Ala Ala Gly Gly Thr Ala Thr Ala Cys Ala Ala Cys Ala Thr
 3170   3175   3180
Cys Cys Gly Cys Gly Gly Cys Gly Ala Cys Ala Thr Gly Thr Ala Cys
3185   3190   3195   3200
Cys Ala Gly Cys Thr Cys Gly Ala Cys Ala Thr Cys Cys Thr Gly Gly
            3205   3210   3215
Ala Thr Ala Cys Cys Thr Cys Thr Gly Gly Cys Ala Ala Cys Cys Ala
            3220   3225   3230
Cys Cys Cys Cys Thr Thr Cys Cys Cys Gly Cys Cys Ala Thr Gly
            3235   3240   3245
Cys Gly Cys Ala Gly Gly Cys Thr Gly Thr Cys Cys Ala Thr Cys Cys
            3250   3255   3260
Thr Cys Ala Cys Ala Gly Gly Thr Gly Ala Gly Gly Cys Cys Cys Ala
3265   3270   3275   3280
Cys Thr Gly Gly Thr Gly Cys Cys Thr Gly Gly Gly Cys Thr Gly Gly
            3285   3290   3295
Gly Gly Cys Gly Gly Cys Ala Gly Gly Gly Cys Cys Ala Gly Gly Gly
            3300   3305   3310
Cys Ala Thr Gly Gly Gly Thr Gly Cys Gly Gly Ala Gly Thr Gly Thr
            3315   3320   3325
Gly Cys Thr Gly Gly Gly Cys Ala Cys Thr Thr Gly Gly Cys Ala Gly
            3330   3335   3340
Thr Thr Thr Gly Cys Ala Thr Ala Gly Ala Cys Thr Thr Gly Cys Ala
3345   3350   3355   3360
Thr Ala Gly Cys Cys Ala Thr Cys Gly Thr Cys Thr Gly Ala Gly Ala
            3365   3370   3375
Cys Ala Gly Gly Cys Gly Thr Cys Ala Thr Cys Cys Cys Thr Gly Cys
            3380   3385   3390
Ala Cys Ala Ala Thr Gly Ala Gly Gly Cys Thr Cys Ala Gly Ala Gly
            3395   3400   3405
Ala Gly Gly Thr Thr Thr Thr Gly Cys Cys Ala Thr Gly Thr Gly Cys
3410   3415   3420
Thr Gly Gly Ala Ala Ala Thr Ala Gly Thr Gly Ala Thr Gly Ala Ala
3425   3430   3435   3440
Gly Thr Cys Gly Gly Gly Gly Gly Cys Cys Cys Cys Gly Ala Thr Thr
            3445   3450   3455
Cys Cys Ala Thr Thr Cys Thr Gly Thr Thr Ala Gly Ala Cys Thr Cys
            3460   3465   3470
Cys Ala Gly Ala Thr Cys Gly Ala Thr Thr Ala Cys Thr Cys Ala Thr
            3475   3480   3485
Gly Gly Cys Thr Gly Thr Cys Gly Gly Gly Gly Cys Cys Gly Cys Cys
            3490   3495   3500
Thr Thr Cys Cys Ala Gly Ala Thr Cys Ala Gly Gly Ala Gly Cys Thr
3505   3510   3515   3520
Gly Ala Thr Ala Cys Cys Ala Gly Cys Ala Thr Gly Cys Cys Cys Cys
            3525   3530   3535
Ala Gly Gly Gly Ala Thr Ala Thr Thr Cys Cys Thr Thr Thr Cys Thr
            3540   3545   3550
Ala Gly Gly Gly Ala Ala Cys Ala Gly Ala Ala Thr Gly Ala Thr Gly

10

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          3555                3560                3565
Cys Cys Cys Thr Gly Gly Cys Thr Gly Cys Thr Gly Cys Thr Thr Thr
     3570                3575                3580
Cys Cys Thr Thr Cys Thr Cys Cys Gly Gly Ala Ala Gly Ala Thr Gly
3585                3590                3595                3600
Ala Cys Cys Cys Ala Cys Cys Ala Gly Ala Gly Cys Thr Cys Cys Ala
          3605                3610                3615
Gly Gly Gly Cys Cys Cys Ala Ala Gly Gly Thr Cys Ala Gly Thr Cys
          3620                3625                3630
Cys Ala Cys Gly Gly Gly Gly Cys Thr Cys Ala Gly Gly Thr Cys Thr
          3635                3640                3645
Cys Cys Cys Ala Cys Ala Cys Cys Cys Cys Ala Gly Gly Cys Cys Thr
          3650                3655                3660
Thr Thr Gly Cys Cys Ala Cys Cys Thr Cys Cys Thr Ala Gly Ala Gly
3665                3670                3675                3680
Ala Gly Gly Thr Ala Ala Gly Gly Gly Cys Ala Gly Gly Ala Cys Cys
          3685                3690                3695
Cys Ala Gly Gly Cys Ala Gly Thr Gly Ala Thr Cys Ala Cys Cys Ala
          3700                3705                3710
Ala Ala Gly Gly Gly Ala Ala Gly Gly Gly Gly Gly Cys Thr Thr Gly
          3715                3720                3725
Gly Thr Cys Ala Thr Gly Gly Thr Cys Ala Thr Ala Gly Thr Gly Ala
          3730                3735                3740
Thr Gly Gly Thr Gly Ala Thr Gly Gly Cys Ala Cys Thr Ala Gly Cys
3745                3750                3755                3760
Thr Gly Ala Cys Ala Cys Thr Thr Ala Thr Cys Ala Gly Ala Ala Gly
          3765                3770                3775
Cys Thr Ala Thr Gly Gly Gly Cys Cys Thr Gly Gly Cys Cys Cys Thr
          3780                3785                3790
Gly Thr Thr Cys Thr Thr Ala Gly Ala Gly Cys Thr Thr Gly Gly Cys
          3795                3800                3805
Ala Thr Gly Thr Ala Gly Thr Thr Thr Thr Thr Thr Thr Gly Gly Ala
3810                3815                3820
Ala Ala Cys Ala Gly Ala Gly Thr Cys Thr Cys Gly Cys Thr Cys Thr
3825                3830                3835                3840
Gly Thr Cys Ala Cys Cys Cys Ala Gly Gly Cys Thr Gly Gly Ala Gly
          3845                3850                3855
Thr Gly Cys Ala Gly Thr Gly Gly Cys Gly Cys Gly Ala Thr Cys Thr
          3860                3865                3870
Cys Gly Gly Cys Thr Cys Ala Cys Thr Gly Cys Ala Ala Cys Cys Thr
          3875                3880                3885
Cys Thr Gly Cys Cys Thr Cys Cys Cys Gly Gly Gly Thr Thr Cys Ala
3890                3895                3900
Ala Gly Cys Gly Ala Thr Thr Cys Thr Cys Cys Thr Gly Cys Cys Thr
3905                3910                3915                3920
Cys Ala Gly Thr Cys Cys Cys Cys Cys Ala Ala Gly Thr Ala Gly Cys
          3925                3930                3935
Thr Gly Gly Gly Ala Cys Thr Ala Cys Ala Gly Gly Cys Ala Cys Gly
          3940                3945                3950
Thr Gly Cys Cys Ala Cys Cys Ala Thr Gly Cys Cys Cys Gly Gly Cys
          3955                3960                3965
Thr Ala Ala Thr Thr Thr Thr Thr Thr Gly Thr Ala Thr Thr Thr Thr
          3970                3975                3980
Thr Ala Cys Thr Ala Gly Ala Gly Ala Cys Gly Gly Gly Ala Thr Thr
3985                3990                3995                4000
Thr Cys Ala Cys Cys Ala Thr Gly Thr Thr Ala Gly Cys Cys Ala Gly
          4005                4010                4015
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11

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Gly Ala Thr Gly Gly Thr Cys Thr Cys Gly Ala Thr Cys Thr Cys Cys
          4020                4025                4030
Thr Gly Ala Cys Cys Thr Cys Gly Thr Gly Ala Thr Cys Thr Gly Cys
          4035                4040                4045
Cys Thr Ala Cys Cys Thr Cys Ala Gly Cys Cys Thr Cys Cys Cys Ala
     4050                4055                4060
Ala Ala Gly Thr Gly Cys Thr Gly Ala Gly Ala Thr Thr Ala Cys Ala
4065                4070                4075                4080
Gly Gly Cys Gly Thr Cys Ala Gly Cys Cys Ala Cys Cys Gly Cys Gly
          4085                4090                4095
Gly Cys Cys Ala Gly Cys Cys Ala Gly Cys Ala Thr Gly Thr Ala Gly
          4100                4105                4110
Thr Thr Ala Thr Thr Thr Ala Ala Cys Cys Cys Thr Cys Ala Cys Ala
          4115                4120                4125
Gly Thr Ala Ala Ala Thr Ala Gly Thr Thr Ala Thr Thr Cys Ala Thr
     4130                4135                4140
Thr Cys Cys Cys Thr Thr Thr Thr Ala Cys Ala Gly Gly Thr Gly
4145                4150                4155                4160
Gly Gly Gly Ala Ala Ala Cys Thr Gly Ala Ala Gly Cys Cys Cys Ala
          4165                4170                4175
Gly Ala Gly Ala Gly Gly Thr Thr Ala Ala Gly Thr Ala Ala Cys Thr
          4180                4185                4190
Cys Ala Cys Thr Cys Cys Ala Gly Thr Gly Gly Thr Ala Gly Cys Ala
          4195                4200                4205
Cys Ala Gly Cys Thr Cys Gly Thr Ala Ala Ala Gly Gly Cys Ala Gly
     4210                4215                4220
Thr Cys Thr Gly Cys Thr Thr Thr Thr Gly Thr Gly Cys Thr Thr Thr
4225                4230                4235                4240
Cys Ala Gly Ala Cys Ala Ala Ala Gly Cys Cys Ala Thr Ala Cys Cys
          4245                4250                4255
Ala Cys Ala Gly Cys Cys Thr Cys Thr Cys Ala Gly Cys Cys Cys Thr
          4260                4265                4270
Gly Cys Thr Gly Gly Gly Ala Ala Gly Gly Gly Thr Gly Ala Gly Gly
          4275                4280                4285
Ala Gly Gly Gly Ala Cys Ala Gly Gly Gly Ala Gly Gly Thr Thr Gly
     4290                4295                4300
Gly Gly Gly Gly Gly Ala Ala Gly Ala Ala Gly Gly Gly Gly Thr Gly
4305                4310                4315                4320
Ala Gly Thr Gly Gly Ala Gly Cys Thr Gly Ala Gly Gly Gly Gly Cys
          4325                4330                4335
Thr Gly Thr Gly Cys Cys Cys Thr Thr Gly Thr Thr Thr Ala Cys Ala
          4340                4345                4350
Cys Thr Gly Cys Ala Thr Thr Ala Gly Cys Ala Thr Gly Gly Thr Ala
     4355                4360                4365
Gly Cys Thr Ala Ala Gly Ala Gly Gly Ala Cys Ala Ala Gly Cys Cys
     4370                4375                4380
Cys Gly Gly Gly Ala Cys Cys Cys Ala Gly Cys Ala Cys Cys Thr Gly
4385                4390                4395                4400
Gly Gly Thr Gly Thr Gly Ala Gly Cys Cys Cys Thr Gly Gly Thr Thr
          4405                4410                4415
Cys Cys Gly Cys Thr Gly Cys Thr Thr Cys Cys Thr Gly Gly Cys Thr
          4420                4425                4430
Thr Thr Gly Thr Ala Cys Cys Thr Cys Gly Ala Gly Gly Cys Ala Ala
          4435                4440                4445
Gly Gly Gly Ala Thr Thr Thr Thr Ala Thr Cys Thr Cys Cys Thr Thr
     4450                4455                4460
Gly Thr Gly Thr Cys Thr Cys Ala Gly Cys Ala Cys Thr Cys Thr Cys
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12

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4465                4470                4475                4480
Ala Thr Cys Thr Gly Thr Ala Ala Gly Ala Cys Thr Gly Cys Ala Cys
               4485                4490                4495
Cys Ala Cys Ala Thr Cys Ala Ala Cys Ala Cys Thr Cys Ala Thr Cys
          4500                4505                4510
Cys Thr Ala Ala Ala Gly Gly Gly Ala Cys Thr Gly Thr Gly Ala Gly
          4515                4520                4525
Ala Cys Thr Thr Ala Ala Ala Thr Gly Ala Ala Thr Gly Ala Ala Thr
     4530                4535                4540
Ala Thr Ala Thr Gly Thr Ala Ala Gly Gly Cys Gly Cys Thr Thr Gly
4545                4550                4555                4560
Gly Thr Gly Ala Gly Cys Ala Gly Ala Thr Ala Gly Thr Ala Ala Ala
               4565                4570                4575
Thr Gly Cys Ala Cys Ala Ala Thr Ala Ala Ala Thr Cys Cys Cys Cys
          4580                4585                4590
Ala Ala Gly Thr Cys Thr Thr Cys Thr Gly Thr Thr Gly Ala Gly Thr
          4595                4600                4605
Cys Ala Gly Cys Ala Thr Thr Thr Gly Cys Ala Ala Gly Thr Gly Gly
     4610                4615                4620
Gly Cys Cys Thr Gly Cys Thr Ala Cys Gly Gly Gly Thr Thr Ala Cys
4625                4630                4635                4640
Ala Cys Gly Ala Thr Cys Ala Thr Thr Thr Cys Cys Cys Ala Ala Gly
          4645                4650                4655
Thr Cys Ala Cys Gly Cys Cys Cys Cys Thr Gly Ala Ala Gly Thr Thr
          4660                4665                4670
Gly Cys Thr Gly Ala Gly Cys Ala Gly Gly Gly Ala Thr Ala Ala Gly
     4675                4680                4685
Gly Gly Ala Ala Gly Gly Ala Gly Thr Gly Ala Gly Cys Ala Gly Gly
          4690                4695                4700
Cys Ala Ala Cys Thr Cys Thr Cys Thr Ala Gly Gly Cys Ala Thr Cys
4705                4710                4715                4720
Ala Thr Thr Cys Ala Gly Ala Thr Ala Ala Cys Cys Cys Cys Cys Cys
               4725                4730                4735
Ala Ala Cys Thr Gly Ala Gly Gly Thr Ala Cys Thr Thr Cys Thr Ala
          4740                4745                4750
Thr Ala Cys Ala Gly Ala Gly Ala Ala Ala Cys Cys Cys Ala Thr Gly
          4755                4760                4765
Cys Cys Ala Cys Thr Cys Cys Cys Ala Gly Cys Cys Cys Thr Gly Cys
          4770                4775                4780
Thr Gly Cys Cys Gly Cys Cys Thr Thr Gly Ala Gly Gly Cys Cys Ala
4785                4790                4795                4800
Ala Gly Ala Cys Thr Gly Ala Gly Gly Cys Thr Gly Cys Gly Gly Gly
          4805                4810                4815
Gly Thr Gly Gly Cys Cys Cys Cys Thr Cys Cys Thr Thr Gly Ala Gly
          4820                4825                4830
Thr Gly Cys Thr Thr Thr Cys Thr Cys Thr Thr Cys Cys Ala Gly Gly
          4835                4840                4845
Cys Thr Gly Gly Cys Thr Thr Thr Thr Cys Cys Gly Ala Gly Cys Ala
     4850                4855                4860
Thr Cys Thr Gly Ala Cys Cys Cys Ala Gly Ala Cys Ala Gly Cys Ala
4865                4870                4875                4880
Gly Thr Cys Ala Ala Gly Thr Thr Cys Thr Cys Cys Gly Cys Thr Cys
               4885                4890                4895
Cys Ala Cys Cys Cys Gly Ala Gly Thr Thr Thr Thr Gly Gly Ala
          4900                4905                4910
Gly Ala Ala Gly Gly Gly Gly Cys Ala Thr Gly Thr Ala Gly Ala Thr
     4915                4920                4925
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13

Ala Gly Gly Ala Gly Ala Gly Cys Cys Cys Thr Gly Gly Gly Thr Cys
    4930   4935   4940
Gly Ala Cys Cys Thr Gly Thr Gly Thr Thr Cys Gly Ala Ala Thr Cys
4945   4950   4955   4960
Cys Thr Thr Gly Cys Thr Gly Gly Gly Cys Cys Thr Cys Thr Thr Gly
            4965   4970   4975
Gly Cys Thr Thr Ala Ala Ala Thr Gly Thr Gly Thr Gly Ala Cys Cys
        4980   4985   4990
Ala Gly Ala Gly Gly Cys Ala Cys Ala Thr Gly Cys Ala Thr Cys Cys
        4995   5000   5005
Thr Gly Thr Cys Thr Gly Ala Gly Thr Cys Thr Cys Ala Gly Cys Cys
        5010   5015   5020
Thr Cys Cys Cys Cys Ala Gly Cys Cys Ala Cys Ala Cys Ala Gly Thr
5025   5030   5035   5040
Gly Gly Gly Cys Thr Thr Ala Ala Cys Cys Thr Cys Ala Thr Ala Cys
        5045   5050   5055
Cys Cys Cys Gly Cys Ala Gly Gly Gly Ala Gly Gly Cys Thr Gly Thr
        5060   5065   5070
Gly Ala Gly Gly Ala Cys Thr Gly Cys Ala Ala Gly Ala Ala Gly Gly
        5075   5080   5085
Cys Thr Thr Gly Thr Gly Gly Cys Gly Gly Gly Ala Gly Cys Thr Thr
        5090   5095   5100
Cys Cys Ala Gly Cys Ala Cys Gly Thr Gly Ala Cys Gly Gly Gly Thr
5105   5110   5115   5120
Ala Thr Thr Gly Cys Ala Thr Thr Gly Gly Thr Gly Thr Cys Ala Gly
        5125   5130   5135
Cys Thr Cys Cys Cys Cys Cys Ala Gly Cys Cys Thr Thr Gly Gly Gly
        5140   5145   5150
Gly Ala Gly Gly Gly Gly Ala Cys Thr Gly Gly Gly Thr Ala Cys Cys
        5155   5160   5165
Cys Gly Cys Thr Gly Cys Ala Ala Thr Gly Ala Ala Thr Ala Ala Gly
        5170   5175   5180
Gly Cys Thr Ala Ala Thr Gly Ala Cys Ala Gly Ala Gly Gly Gly Ala
5185   5190   5195   5200
Ala Gly Gly Ala Gly Ala Gly Gly Gly Gly Ala Gly Ala Thr Gly Thr
        5205   5210   5215
Ala Gly Ala Gly Ala Gly Gly Ala Ala Gly Cys Ala Cys Ala Thr Gly
        5220   5225   5230
Cys Ala Thr Ala Thr Thr Thr Thr Cys Ala Gly Cys Ala Thr Thr Ala
        5235   5240   5245
Ala Thr Thr Thr Thr Cys Ala Gly Thr Gly Ala Cys Ala Cys Ala Ala
        5250   5255   5260
Gly Thr Ala Ala Thr Ala Cys Cys Cys Ala Ala Ala Cys Ala Cys Ala
5265   5270   5275   5280
Cys Cys Cys Thr Cys Cys Thr Gly Cys Ala Ala Ala Cys Gly Cys Thr
        5285   5290   5295
Ala Cys Ala Gly Ala Thr Ala Ala Ala Gly Cys Thr Ala Ala Thr Gly
        5300   5305   5310
Cys Cys Cys Cys Thr Thr Thr Gly Ala Cys Cys Cys Ala Thr Gly Thr
        5315   5320   5325
Cys Cys Cys Cys Ala Ala Thr Cys Cys Cys Ala Gly Gly Cys Thr Cys
        5330   5335   5340
Cys Thr Gly Cys Cys Cys Cys Thr Gly Cys Cys Cys Cys Gly Gly Ala
5345   5350   5355   5360
Gly Gly Thr Gly Gly Cys Cys Ala Cys Cys Cys Thr Gly Gly Cys Ala
        5365   5370   5375
Gly Thr Cys Thr Gly Gly Cys Ala Thr Gly Gly Ala Gly Cys Cys Thr

```
            5380                    5385                    5390
Thr Cys Cys Gly Gly Gly Cys Cys Thr Cys Cys Gly Thr Gly Ala Cys
            5395                    5400                    5405
Thr Ala Cys Ala Cys Cys Gly Gly Cys Ala Thr Thr Cys Gly Thr Ala
            5410                    5415                    5420
Thr Thr Thr Gly Thr Ala Thr Cys Cys Cys Cys Ala Cys Ala Ala Thr
5425                    5430                    5435                    5440
Gly Gly Ala Gly Ala Gly Thr Ala Thr Thr Thr Thr Gly Thr Cys
            5445                    5450                    5455
Thr Gly Thr Cys Thr Cys Thr Thr Thr Thr Thr Ala Thr Gly Gly
            5460                    5465                    5470
Cys Gly Cys Ala Thr Ala Thr Cys Ala Thr Thr Cys Thr Gly Ala Gly
            5475                    5480                    5485
Cys Ala Cys Ala Gly Cys Thr Gly Thr Cys Thr Gly Ala Thr Gly Cys
            5490                    5495                    5500
Thr Thr Gly Thr Thr Thr Thr Thr Thr Thr Thr Thr Cys Ala Cys Ala
5505                    5510                    5515                    5520
Cys Ala Cys Cys Ala Ala Cys Cys Cys Gly Thr Gly Cys Cys Thr Cys
            5525                    5530                    5535
Ala Thr Thr Thr Thr Cys Cys Ala Ala Cys Cys Thr Gly Gly Thr Gly
            5540                    5545                    5550
Gly Ala Ala Cys Cys Thr Cys Ala Thr Thr Thr Thr Thr Cys Ala
            5555                    5560                    5565
Ala Cys Cys Thr Cys Ala Thr Thr Thr Cys Cys Thr Gly Cys Thr
            5570                    5575                    5580
Gly Cys Thr Cys Ala Gly Gly Ala Ala Ala Thr Thr Cys Thr Gly Ala
5585                    5590                    5595                    5600
Ala Ala Gly Cys Cys Ala Thr Thr Ala Ala Thr Thr Cys Cys Ala Cys
            5605                    5610                    5615
Thr Gly Cys Cys Ala Gly Cys Thr Cys Thr Thr Cys Thr Thr Cys Cys
            5620                    5625                    5630
Ala Gly Cys Thr Gly Cys Cys Ala Gly Ala Cys Gly Gly Gly Cys Cys
            5635                    5640                    5645
Gly Ala Thr Cys Thr Cys Thr Gly Ala Thr Gly Cys Thr Thr Gly Gly
            5650                    5655                    5660
Cys Ala Thr Cys Gly Cys Ala Gly Thr Cys Thr Cys Gly Cys Ala Thr
5665                    5670                    5675                    5680
Thr Thr Gly Ala Ala Thr Ala Thr Gly Thr Cys Ala Ala Gly Gly Cys
            5685                    5690                    5695
Cys Ala Cys Gly Ala Gly Thr Cys Cys Thr Cys Ala Gly Gly Gly Gly
            5700                    5705                    5710
Cys Cys Cys Cys Gly Gly Ala Thr Thr Ala Gly Cys Cys Thr Ala Ala
            5715                    5720                    5725
Cys Gly Gly Gly Ala Thr Gly Gly Gly Thr Thr Thr Gly Gly Cys
5730                    5735                    5740
Ala Gly Cys Cys Cys Ala Ala Gly Cys Ala Gly Gly Ala Ala Gly Ala
            5745                    5750                    5755                    5760
Gly Thr Thr Gly Cys Cys Ala Ala Gly Cys Thr Gly Ala Cys Gly Cys
            5765                    5770                    5775
Thr Gly Cys Cys Thr Cys Gly Cys Ala Ala Gly Thr Gly Cys Cys Thr
            5780                    5785                    5790
Thr Thr Cys Ala Gly Ala Ala Gly Ala Gly Cys Cys Cys Ala Cys Ala
            5795                    5800                    5805
Cys Thr Gly Cys Ala Gly Thr Thr Cys Cys Cys Thr Cys Cys Ala Thr
            5810                    5815                    5820
Cys Ala Cys Cys Thr Cys Cys Cys Ala Thr Cys Cys Ala Thr Thr Cys
5825                    5830                    5835                    5840
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15

```
Ala Gly Gly Cys Thr Thr Cys Cys Thr Thr Gly Gly Thr Thr Ala Ala
              5845                5850              5855
Cys Ala Cys Thr Gly Ala Cys Thr Gly Thr Gly Thr Gly Cys Cys Ala
              5860                5865              5870
Gly Gly Cys Cys Cys Thr Gly Gly Gly Gly Ala Gly Ala Cys Cys Ala
              5875                5880              5885
Gly Gly Ala Cys Gly Ala Gly Thr Gly Gly Gly Thr Gly Ala Thr Gly
          5890                5895                5900
Gly Ala Ala Cys Cys Cys Thr Thr Cys Thr Cys Thr Gly Thr Gly Cys
      5905                5910                5915                5920
Cys Cys Gly Ala Gly Cys Thr Gly Thr Thr Thr Gly Gly Ala Gly Cys
              5925                5930                5935
Ala Cys Ala Cys Cys Thr Thr Thr Gly Ala Thr Cys Thr Gly Gly Ala
              5940                5945                5950
Cys Ala Cys Cys Ala Thr Thr Cys Thr Gly Ala Ala Thr Gly Thr Gly
          5955                5960                5965
Cys Cys Ala Thr Gly Thr Gly Cys Cys Ala Thr Thr Ala Ala Ala Thr
      5970                5975                5980
Gly Gly Gly Gly Gly Thr Ala Ala Ala Thr Gly Ala Thr Gly Thr Gly
  5985                5990                5995                6000
Cys Thr Cys Thr Gly Gly Gly Gly Gly Thr Gly Cys Ala Gly Ala Gly
              6005                6010                6015
Gly Ala Ala Gly Gly Thr Gly Gly Cys Ala Gly Cys Cys Ala Thr Thr
          6020                6025                6030
Cys Thr Gly Cys Cys Ala Gly Ala Ala Gly Cys Thr Gly Gly Ala Ala
          6035                6040                6045
Cys Thr Gly Gly Thr Thr Gly Cys Thr Thr Cys Thr Cys Thr Thr Cys
      6050                6055                6060
Thr Cys Ala Ala Gly Ala Ala Thr Thr Thr Gly Gly Gly Cys Cys Ala
  6065                6070                6075                6080
Ala Thr Thr Gly Cys Thr Gly Ala Thr Thr Cys Cys Thr Cys Thr Gly
              6085                6090                6095
Gly Gly Cys Cys Thr Cys Ala Gly Thr Thr Thr Cys Cys Thr Cys Ala
          6100                6105                6110
Thr Cys Thr Gly Thr Gly Ala Gly Ala Cys Ala Gly Gly Gly Ala Thr
          6115                6120                6125
Cys Thr Thr Gly Thr Cys Ala Cys Ala Cys Cys Ala Cys Ala Ala Gly
      6130                6135                6140
Gly Cys Thr Ala Thr Cys Ala Ala Gly Ala Gly Thr Thr Thr Gly Ala
  6145                6150                6155                6160
Gly Cys Ala Ala Ala Ala Gly Thr Gly Gly Thr Thr Gly Gly Ala Cys
          6165                6170                6175
Gly Cys Ala Gly Thr Gly Gly Cys Thr Cys Ala Thr Gly Cys Cys Thr
          6180                6185                6190
Gly Thr Ala Ala Thr Cys Cys Cys Ala Gly Cys Thr Cys Thr Thr Thr
          6195                6200                6205
Gly Gly Gly Ala Gly Gly Cys Cys Gly Ala Gly Gly Thr Gly Gly Gly
      6210                6215                6220
Cys Ala Gly Ala Thr Cys Thr Cys Thr Thr Gly Ala Gly Gly Thr Cys
  6225                6230                6235                6240
Ala Gly Gly Ala Gly Thr Thr Cys Ala Ala Gly Ala Cys Cys Ala Gly
              6245                6250                6255
Cys Cys Thr Gly Gly Cys Thr Ala Ala Cys Ala Cys Ala Gly Thr Gly
          6260                6265                6270
Ala Ala Ala Cys Ala Cys Cys Gly Thr Cys Thr Cys Thr Ala Cys Thr
      6275                6280                6285
Ala Ala Ala Ala Ala Ala Thr Ala Cys Ala Ala Ala Ala Ala Ala Thr
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16

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      6290                6295                6300
Thr Ala Gly Cys Cys Ala Gly Gly Thr Gly Thr Gly Gly Thr Gly Ala
6305                6310                6315                6320
Thr Gly Gly Gly Cys Ala Cys Cys Thr Gly Thr Ala Ala Thr Cys Cys
      6325                6330                6335
Cys Ala Gly Thr Thr Ala Cys Thr Cys Gly Gly Gly Ala Gly Gly Cys
      6340                6345                6350
Thr Gly Ala Gly Gly Cys Ala Gly Gly Ala Gly Ala Ala Thr Cys Thr
      6355                6360                6365
Cys Thr Thr Gly Ala Ala Cys Cys Cys Ala Gly Gly Ala Gly Gly Thr
      6370                6375                6380
Gly Gly Ala Gly Gly Thr Thr Gly Cys Ala Gly Thr Gly Ala Gly Cys
6385                6390                6395                6400
Thr Gly Ala Gly Ala Thr Cys Thr Thr Gly Cys Cys Ala Thr Thr Gly
                6405                6410                6415
Cys Ala Thr Thr Cys Cys Ala Gly Gly Cys Thr Gly Gly Gly Cys Ala
                6420                6425                6430
Ala Cys Ala Ala Gly Ala Gly Thr Gly Ala Ala Ala Cys Thr Cys Thr
                6435                6440                6445
Gly Thr Cys Thr Cys Ala Gly Ala Ala Ala Ala Thr Ala Ala Ala Thr
      6450                6455                6460
Ala Ala Ala Thr Ala Ala Ala Thr Ala Ala Ala Thr Ala Ala Ala Ala
6465                6470                6475                6480
Ala Ala Thr Ala Gly Cys Thr Ala Gly Gly Cys Ala Thr Gly Gly Thr
                6485                6490                6495
Gly Ala Cys Ala Gly Gly Cys Gly Cys Cys Thr Gly Thr Ala Ala Thr
                6500                6505                6510
Cys Cys Cys Ala Gly Cys Thr Gly Cys Thr Cys Cys Ala Gly Ala Gly
                6515                6520                6525
Gly Cys Thr Gly Ala Gly Gly Cys Ala Gly Gly Ala Gly Ala Ala Thr
      6530                6535                6540
Cys Gly Cys Thr Thr Ala Ala Ala Cys Cys Cys Ala Gly Gly Ala Gly
6545                6550                6555                6560
Gly Thr Gly Gly Ala Ala Gly Thr Thr Gly Cys Ala Gly Thr Gly Ala
                6565                6570                6575
Gly Cys Cys Ala Ala Gly Ala Thr Cys Ala Cys Ala Cys Cys Ala Cys
      6580                6585                6590
Thr Gly Cys Ala Cys Thr Cys Cys Ala Gly Cys Cys Thr Gly Gly Gly
                6595                6600                6605
Cys Cys Ala Cys Ala Gly Ala Gly Ala Ala Ala Gly Ala Cys Thr Cys
      6610                6615                6620
Cys Ala Thr Cys Thr Cys Ala Ala Ala Ala Ala Ala Ala Ala Ala Ala
6625                6630                6635                6640
Ala Ala Ala Ala Ala Ala Ala Ala Ala Ala Ala Ala Ala Ala Ala Gly
                6645                6650                6655
Thr Thr Thr Ala Ala Gly Cys Ala Ala Ala Ala Gly Thr Gly Ala Gly
                6660                6665                6670
Gly Ala Ala Gly Gly Thr Gly Cys Thr Thr Ala Thr Thr Ala Ala Ala
      6675                6680                6685
Ala Gly Cys Thr Gly Gly Ala Ala Ala Thr Cys Ala Gly Gly Ala Thr
      6690                6695                6700
Gly Gly Ala Gly Gly Thr Ala Cys Cys Ala Gly Thr Cys Cys Ala Gly
6705                6710                6715                6720
Ala Cys Ala Gly Cys Cys Thr Cys Cys Cys Cys Ala Cys Cys Ala Cys
                6725                6730                6735
Cys Cys Cys Ala Cys Cys Gly Thr Cys Thr Cys Cys Ala Cys Ala Gly
                6740                6745                6750
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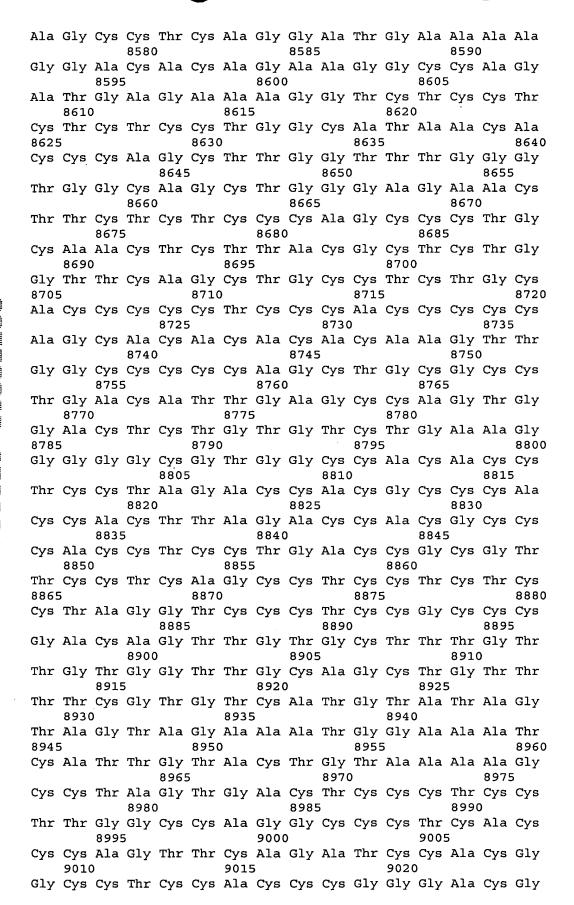
Cys Ala Gly Cys Cys Cys Cys Thr Gly Thr Thr Thr Cys Ala Gly Ala
          6755   6760   6765
Thr Thr Cys Ala Cys Ala Ala Gly Cys Cys Thr Gly Cys Cys Thr Thr
     6770   6775   6780
Gly Ala Gly Thr Gly Ala Thr Gly Cys Ala Gly Thr Gly Ala Gly Thr
6785   6790   6795   6800
Thr Ala Thr Cys Cys Thr Gly Gly Ala Gly Gly Cys Ala Gly Thr Gly
          6805   6810   6815
Thr Gly Gly Gly Cys Cys Thr Thr Gly Gly Ala Gly Gly Cys Cys Ala
          6820   6825   6830
Gly Cys Ala Cys Thr Cys Ala Cys Thr Thr Thr Thr Cys Ala Thr
          6835   6840   6845
Cys Cys Thr Ala Thr Gly Ala Thr Thr Thr Ala Thr Thr Thr Gly Ala
     6850   6855   6860
Gly Ala Ala Gly Cys Ala Gly Ala Gly Ala Gly Cys Ala Cys Cys Thr
6865   6870   6875   6880
Ala Cys Cys Gly Gly Gly Thr Gly Cys Cys Ala Gly Gly Ala Ala Cys
          6885   6890   6895
Gly Ala Gly Cys Thr Ala Gly Gly Thr Gly Ala Gly Ala Ala Cys Ala
          6900   6905   6910
Gly Ala Ala Thr Cys Ala Gly Gly Thr Ala Gly Ala Ala Ala Thr Cys
     6915   6920   6925
Thr Cys Ala Gly Cys Cys Thr Ala Gly Cys Cys Ala Cys Ala Cys Gly
     6930   6935   6940
Gly Ala Ala Gly Cys Thr Gly Thr Gly Thr Gly Ala Thr Cys Thr Thr
6945   6950   6955   6960
Gly Gly Gly Cys Ala Gly Gly Cys Thr Gly Cys Ala Thr Ala Cys Cys
          6965   6970   6975
Cys Thr Thr Thr Cys Thr Gly Ala Gly Cys Cys Thr Cys Ala Gly Thr
          6980   6985   6990
Thr Thr Gly Cys Thr Cys Ala Cys Cys Thr Gly Thr Ala Ala Thr Gly
     6995   7000   7005
Cys Ala Ala Ala Gly Gly Thr Ala Ala Cys Ala Ala Ala Ala Thr Cys
     7010   7015   7020
Thr Thr Gly Ala Cys Ala Gly Ala Gly Gly Cys Ala Thr Ala Gly Thr
7025   7030   7035   7040
Gly Ala Gly Gly Ala Ala Thr Cys Ala Ala Gly Ala Gly Ala Ala Cys
          7045   7050   7055
Ala Ala Cys Gly Gly Gly Cys Cys Thr Gly Gly Ala Gly Cys Ala Thr
          7060   7065   7070
Ala Cys Ala Cys Cys Cys Ala Gly Thr Gly Cys Thr Thr Ala Gly Cys
          7075   7080   7085
Cys Cys Cys Cys Ala Gly Thr Ala Gly Gly Cys Cys Cys Thr Cys Ala
7090   7095   7100
Cys Thr Cys Thr Cys Ala Thr Cys Ala Thr Thr Ala Cys Thr Gly Ala
7105   7110   7115   7120
Cys Ala Cys Cys Thr Gly Ala Gly Gly Thr Cys Ala Cys Thr Gly Ala
          7125   7130   7135
Gly Cys Ala Thr Gly Thr Gly Cys Cys Ala Cys Thr Gly Thr Cys Cys
          7140   7145   7150
Ala Thr Thr Cys Ala Thr Thr Ala Thr Cys Thr Thr Gly Cys Ala Thr
          7155   7160   7165
Ala Ala Cys Thr Cys Cys Cys Ala Ala Ala Thr Cys Ala Thr Cys
     7170   7175   7180
Cys Thr Gly Cys Ala Ala Gly Gly Thr Ala Ala Thr Ala Thr Thr Thr
7185   7190   7195   7200
Cys Ala Thr Cys Thr Thr Cys Ala Thr Gly Ala Ala Ala Cys Ala Gly

18

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                    7205                7210                7215
Ala Cys Ala Gly Ala Gly Ala Ala Ala Cys Thr Gly Ala Gly Gly Thr
          7220                7225                7230
Thr Ala Cys Ala Gly Ala Gly Gly Thr Thr Thr Cys Gly Thr Gly Ala
          7235                7240                7245
Thr Cys Thr Gly Cys Cys Cys Ala Ala Gly Thr Cys Thr Gly Cys Thr
     7250                7255                7260
Gly Gly Cys Ala Gly Cys Thr Ala Ala Gly Cys Gly Gly Ala Thr Gly
7265                7270                7275                7280
Ala Gly Gly Cys Cys Ala Gly Ala Thr Gly Cys Ala Ala Ala Cys Thr
          7285                7290                7295
Ala Gly Gly Cys Ala Thr Thr Gly Ala Gly Cys Ala Ala Gly Ala Cys
          7300                7305                7310
Ala Gly Gly Cys Ala Gly Gly Ala Cys Cys Cys Cys Thr Gly Cys Thr
          7315                7320                7325
Cys Thr Cys Ala Thr Ala Gly Ala Ala Ala Thr Gly Ala Thr Thr Thr
     7330                7335                7340
Thr Thr Ala Thr Thr Ala Thr Thr Ala Thr Cys Thr Gly Ala Ala Cys
     7345                7350                7355                7360
Ala Cys Ala Gly Thr Cys Cys Ala Cys Ala Cys Ala Ala Gly Thr Gly
          7365                7370                7375
Ala Cys Cys Thr Ala Cys Cys Cys Cys Thr Cys Thr Cys Cys Ala Gly
          7380                7385                7390
Cys Cys Cys Thr Gly Cys Ala Ala Ala Gly Ala Ala Ala Thr Gly Thr
          7395                7400                7405
Gly Ala Ala Gly Thr Gly Ala Gly Thr Thr Ala Ala Cys Thr Gly Thr
          7410                7415                7420
Ala Thr Thr Thr Gly Ala Ala Cys Cys Ala Ala Gly Thr Gly Gly Thr
7425                7430                7435                7440
Cys Cys Ala Cys Gly Thr Gly Thr Thr Ala Gly Cys Thr Ala Thr Gly
          7445                7450                7455
Cys Gly Ala Cys Thr Gly Thr Gly Ala Ala Cys Ala Gly Gly Gly Gly
          7460                7465                7470
Cys Thr Thr Cys Ala Ala Cys Cys Cys Cys Thr Cys Ala Gly Cys
     7475                7480                7485
Cys Thr Cys Ala Gly Thr Thr Thr Cys Cys Thr Gly Thr Cys Cys Thr
     7490                7495                7500
Gly Gly Ala Ala Ala Ala Thr Ala Ala Thr Cys Gly Cys Ala Gly Gly
7505                7510                7515                7520
Gly Ala Gly Ala Ala Thr Ala Ala Thr Cys Gly Cys Ala Gly Cys Thr
          7525                7530                7535
Ala Cys Cys Cys Cys Gly Ala Ala Gly Ala Gly Thr Cys Gly Cys Thr
          7540                7545                7550
Gly Thr Gly Thr Ala Gly Gly Thr Thr Ala Ala Ala Gly Cys Ala Gly
          7555                7560                7565
Thr Thr Ala Thr Gly Cys Cys Gly Cys Ala Thr Ala Ala Cys Thr Gly
     7570                7575                7580
Cys Thr Thr Cys Ala Gly Gly Gly Cys Ala Cys Cys Thr Gly Thr Gly
7585                7590                7595                7600
Ala Cys Thr Cys Cys Cys Ala Gly Cys Thr Cys Thr Thr Ala Gly Gly
          7605                7610                7615
Gly Cys Thr Gly Ala Thr Gly Thr Thr Cys Thr Gly Thr Gly Gly Cys
          7620                7625                7630
Cys Ala Gly Ala Gly Gly Ala Gly Gly Gly Cys Ala Gly Gly Gly Gly
          7635                7640                7645
Thr Thr Gly Cys Ala Gly Cys Thr Gly Gly Cys Cys Gly Gly Thr Gly
     7650                7655                7660
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19

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Ala Ala Cys Thr Cys Ala Cys Thr Ala Cys Cys Thr Gly Gly Gly Cys
7665                7670                7675                7680
Thr Cys Thr Cys Thr Cys Cys Cys Thr Gly Cys Ala Gly Gly Gly Gly
               7685                7690                7695
Ala Thr Gly Thr Cys Thr Thr Cys Ala Thr Cys Cys Thr Gly Gly Thr
               7700                7705                7710
Gly Thr Thr Cys Ala Gly Cys Cys Thr Gly Gly Ala Thr Ala Ala Cys
          7715                7720                7725
Cys Gly Gly Gly Ala Gly Thr Cys Cys Thr Thr Cys Gly Ala Thr Gly
     7730                7735                7740
Ala Gly Gly Thr Cys Ala Ala Gly Cys Gly Cys Cys Thr Thr Cys Ala
7745                7750                7755                7760
Gly Ala Ala Gly Cys Ala Gly Ala Thr Cys Cys Thr Gly Gly Ala Gly
               7765                7770                7775
Gly Thr Cys Ala Ala Gly Thr Cys Cys Thr Gly Cys Cys Thr Gly Ala
               7780                7785                7790
Ala Gly Ala Ala Cys Ala Ala Gly Ala Cys Cys Ala Ala Gly Gly Ala
               7795                7800                7805
Gly Gly Cys Gly Gly Cys Gly Gly Ala Gly Cys Thr Gly Cys Cys Cys
     7810                7815                7820
Ala Thr Gly Gly Thr Cys Ala Thr Cys Thr Gly Thr Gly Gly Cys Ala
7825                7830                7835                7840
Ala Cys Ala Ala Gly Ala Ala Cys Gly Ala Cys Cys Ala Cys Gly Gly
               7845                7850                7855
Cys Gly Ala Gly Cys Thr Gly Thr Gly Cys Cys Gly Cys Cys Ala Gly
          7860                7865                7870
Gly Thr Gly Cys Cys Cys Ala Cys Cys Ala Cys Cys Gly Ala Gly Gly
          7875                7880                7885
Cys Cys Gly Ala Gly Cys Thr Gly Cys Thr Gly Gly Thr Gly Thr Cys
     7890                7895                7900
Gly Gly Gly Cys Gly Ala Cys Gly Ala Gly Ala Ala Cys Thr Gly Cys
7905                7910                7915                7920
Gly Cys Cys Thr Ala Cys Thr Thr Cys Gly Ala Gly Gly Thr Gly Thr
          7925                7930                7935
Cys Gly Gly Cys Cys Ala Ala Gly Ala Ala Gly Ala Ala Cys Ala Cys
          7940                7945                7950
Cys Ala Ala Cys Gly Thr Gly Gly Ala Cys Gly Ala Gly Ala Thr Gly
          7955                7960                7965
Thr Thr Cys Thr Ala Cys Gly Thr Gly Cys Thr Cys Thr Thr Cys Ala
     7970                7975                7980
Gly Cys Ala Thr Gly Gly Cys Cys Ala Ala Gly Cys Thr Gly Cys Cys
7985                7990                7995                8000
Ala Cys Ala Cys Gly Ala Gly Ala Thr Gly Ala Gly Cys Cys Cys Cys
          8005                8010                8015
Gly Cys Cys Cys Thr Gly Cys Ala Thr Cys Gly Cys Ala Ala Gly Ala
          8020                8025                8030
Thr Cys Thr Cys Cys Gly Thr Gly Cys Ala Gly Thr Ala Cys Gly Gly
          8035                8040                8045
Thr Gly Ala Cys Gly Cys Cys Thr Thr Cys Cys Ala Cys Cys Cys Cys
          8050                8055                8060
Ala Gly Gly Cys Cys Cys Thr Thr Cys Thr Gly Cys Ala Thr Gly Cys
8065                8070                8075                8080
Gly Cys Cys Gly Cys Gly Thr Cys Ala Ala Gly Gly Ala Gly Ala Thr
          8085                8090                8095
Gly Gly Ala Cys Gly Cys Cys Thr Ala Thr Gly Gly Cys Ala Thr Gly
          8100                8105                8110
Gly Thr Cys Thr Cys Gly Cys Cys Cys Thr Thr Cys Gly Cys Cys Cys
```

20

```
        8115                8120                8125
Gly Cys Cys Gly Cys Cys Cys Cys Ala Gly Cys Gly Thr Cys Ala Ala
    8130                8135                8140
Cys Ala Gly Thr Gly Ala Cys Cys Thr Cys Ala Ala Gly Thr Ala Cys
8145                8150                8155                8160
Ala Thr Cys Ala Ala Gly Gly Cys Cys Ala Ala Gly Gly Thr Cys Cys
        8165                8170                8175
Thr Thr Cys Gly Gly Gly Ala Ala Gly Gly Cys Cys Ala Gly Gly Cys
        8180                8185                8190
Cys Cys Gly Thr Gly Ala Gly Ala Gly Gly Gly Ala Cys Ala Ala Gly
        8195                8200                8205
Thr Gly Cys Ala Cys Cys Ala Thr Cys Cys Ala Gly Thr Gly Ala Gly
    8210                8215                8220
Cys Gly Ala Gly Gly Gly Ala Thr Gly Cys Thr Gly Gly Gly Gly Cys
8225                8230                8235                8240
Gly Gly Gly Gly Cys Thr Thr Gly Gly Cys Cys Ala Gly Thr Gly Cys
        8245                8250                8255
Cys Thr Thr Cys Ala Gly Gly Gly Ala Gly Gly Thr Gly Gly Cys Cys
        8260                8265                8270
Cys Cys Ala Gly Ala Thr Gly Cys Cys Cys Ala Cys Thr Gly Thr Gly
        8275                8280                8285
Cys Gly Cys Ala Thr Cys Thr Cys Cys Cys Ala Cys Cys Gly Ala
        8290                8295                8300
Gly Gly Cys Cys Cys Cys Gly Gly Cys Ala Gly Cys Ala Gly Thr Cys
8305                8310                8315                8320
Thr Thr Gly Thr Thr Cys Ala Cys Ala Gly Ala Cys Cys Thr Thr Ala
        8325                8330                8335
Gly Gly Cys Ala Cys Cys Ala Gly Ala Cys Thr Gly Gly Ala Gly Gly
        8340                8345                8350
Cys Cys Cys Cys Cys Gly Gly Gly Cys Gly Cys Thr Gly Gly Cys Cys
        8355                8360                8365
Thr Cys Cys Gly Cys Ala Cys Ala Thr Thr Cys Gly Thr Cys Thr Gly
    8370                8375                8380
Cys Cys Thr Thr Cys Thr Cys Ala Cys Ala Gly Cys Thr Thr Thr Cys
8385                8390                8395                8400
Cys Thr Gly Ala Gly Thr Cys Cys Gly Cys Thr Thr Gly Thr Cys Cys
        8405                8410                8415
Ala Cys Ala Gly Cys Thr Cys Cys Thr Thr Gly Gly Thr Gly Gly Thr
        8420                8425                8430
Thr Thr Cys Ala Thr Cys Thr Cys Cys Thr Cys Thr Gly Thr Gly Gly
        8435                8440                8445
Gly Ala Gly Gly Ala Cys Ala Cys Ala Thr Cys Thr Cys Thr Gly Cys
    8450                8455                8460
Ala Gly Cys Cys Thr Cys Ala Ala Gly Ala Gly Thr Thr Ala Gly Gly
8465                8470                8475                8480
Cys Ala Gly Ala Gly Ala Cys Thr Cys Ala Ala Gly Thr Thr Ala Cys
        8485                8490                8495
Ala Cys Cys Thr Thr Cys Cys Thr Cys Thr Cys Cys Thr Gly Gly Gly
        8500                8505                8510
Gly Thr Thr Gly Gly Ala Ala Gly Ala Ala Ala Thr Gly Thr Thr Gly
        8515                8520                8525
Ala Thr Gly Cys Cys Ala Gly Ala Gly Gly Gly Gly Thr Gly Ala Gly
    8530                8535                8540
Gly Ala Thr Thr Gly Cys Thr Gly Cys Gly Thr Cys Ala Thr Ala Thr
8545                8550                8555                8560
Gly Gly Ala Gly Cys Cys Thr Cys Cys Thr Gly Gly Gly Ala Cys Ala
        8565                8570                8575
```

21

Ala Gly Cys Cys Thr Cys Ala Gly Gly Ala Thr Gly Ala Ala Ala Ala
            8580   8585   8590
Gly Gly Ala Cys Ala Cys Ala Gly Ala Ala Gly Gly Cys Cys Ala Gly
            8595   8600   8605
Ala Thr Gly Ala Gly Ala Ala Ala Gly Gly Thr Cys Thr Cys Cys Thr
    8610   8615   8620
Cys Thr Cys Thr Cys Cys Thr Gly Gly Cys Ala Thr Ala Ala Cys Ala
8625   8630   8635   8640
Cys Cys Cys Ala Gly Cys Thr Thr Gly Gly Thr Thr Thr Gly Gly Gly
            8645   8650   8655
Thr Gly Gly Cys Ala Gly Cys Thr Gly Gly Gly Ala Gly Ala Ala Cys
            8660   8665   8670
Thr Thr Cys Thr Cys Thr Cys Cys Cys Ala Gly Cys Cys Cys Thr Gly
            8675   8680   8685
Cys Ala Ala Cys Thr Cys Thr Thr Ala Cys Gly Cys Thr Cys Thr Gly
    8690   8695   8700
Gly Thr Thr Cys Ala Gly Cys Thr Gly Cys Cys Thr Cys Thr Gly Cys
8705   8710   8715   8720
Ala Cys Cys Cys Cys Cys Thr Cys Cys Ala Cys Cys Cys Cys Cys
            8725   8730   8735
Ala Gly Cys Ala Cys Ala Cys Ala Cys Ala Cys Ala Ala Gly Thr Thr
    8740   8745   8750
Gly Gly Cys Cys Cys Cys Cys Ala Gly Cys Thr Gly Cys Gly Cys Cys
            8755   8760   8765
Thr Gly Ala Cys Ala Thr Thr Gly Ala Gly Cys Cys Ala Gly Thr Gly
    8770   8775   8780
Gly Ala Cys Thr Cys Thr Gly Thr Gly Thr Cys Thr Gly Ala Ala Gly
8785   8790   8795   8800
Gly Gly Gly Gly Cys Gly Thr Gly Gly Cys Cys Ala Cys Ala Cys Cys
            8805   8810   8815
Thr Cys Cys Thr Ala Gly Ala Cys Cys Ala Cys Gly Cys Cys Cys Ala
            8820   8825   8830
Cys Cys Ala Cys Thr Thr Ala Gly Ala Cys Cys Ala Cys Gly Cys Cys
            8835   8840   8845
Cys Ala Cys Cys Thr Cys Cys Thr Gly Ala Cys Cys Gly Cys Gly Thr
    8850   8855   8860
Thr Cys Cys Thr Cys Ala Gly Cys Cys Thr Cys Cys Thr Cys Thr Cys
8865   8870   8875   8880
Cys Thr Ala Gly Gly Thr Cys Cys Cys Thr Cys Cys Gly Cys Cys Cys
            8885   8890   8895
Gly Ala Cys Ala Gly Thr Thr Gly Thr Gly Cys Thr Thr Thr Gly Thr
            8900   8905   8910
Thr Gly Thr Gly Gly Thr Thr Gly Cys Ala Gly Cys Thr Gly Thr Thr
            8915   8920   8925
Thr Thr Cys Gly Thr Gly Thr Cys Ala Thr Gly Thr Ala Thr Ala Gly
    8930   8935   8940
Thr Ala Gly Thr Ala Gly Ala Ala Ala Thr Gly Gly Ala Ala Ala Thr
8945   8950   8955   8960
Cys Ala Thr Thr Gly Thr Ala Cys Thr Gly Thr Ala Ala Ala Ala Gly
            8965   8970   8975
Cys Cys Thr Ala Gly Thr Gly Ala Cys Thr Cys Cys Cys Thr Cys Cys
            8980   8985   8990
Thr Thr Gly Gly Cys Cys Ala Gly Gly Cys Cys Cys Thr Cys Ala Cys
            8995   9000   9005
Cys Cys Ala Gly Thr Thr Cys Ala Gly Ala Thr Cys Cys Ala Cys Gly
    9010   9015   9020
Gly Cys Cys Thr Cys Cys Ala Cys Cys Cys Gly Gly Gly Ala Cys Gly

22

```
9025                  9030                 9035                    9040
Cys Cys Thr Thr Cys Cys Thr Cys Cys Thr Cys Thr Gly Cys Thr Cys
              9045    .               9050               9055
Cys Cys Ala Ala Ala Cys Ala Gly Gly Gly Thr Thr Thr Cys Cys Gly
         9060                  9065                 9070
Thr Gly Gly Cys Cys Thr Gly Thr Thr Thr Gly Cys Ala Gly Cys Thr
         9075                  9080                 9085
Ala Gly Ala Cys Ala Thr Thr Gly Ala Cys Cys Thr Cys Cys Gly Cys
    9090                  9095                 9100
Cys Ala Thr Thr Gly Ala Gly Cys Thr Cys Cys Ala Cys Gly Gly Thr
9105                  9110                 9115                    9120
Thr Thr Ala Cys Ala Gly Ala Cys Ala Ala Thr Thr Gly Cys Ala Cys
              9125                  9130                 9135
Ala Ala Gly Cys Gly Thr Gly Gly Gly Gly Thr Gly Gly Gly Cys Ala
              9140                  9145                 9150
Gly Gly Cys Cys Ala Gly Gly Ala Cys Thr Gly Cys Thr Thr Thr Thr
         9155                  9160                 9165
Thr Thr Thr Thr Ala Ala Thr Gly Cys Thr Cys Cys Cys Ala Thr Thr
         9170                  9175                 9180
Thr Cys Ala Cys Ala Gly Ala Gly Gly Ala Thr Ala Cys Cys Ala Cys
9185                  9190                 9195                    9200
Cys Gly Ala Gly Ala Cys Thr Cys Gly Gly Ala Gly Gly Gly Gly Ala
              9205                  9210                 9215
Cys Ala Cys Gly Ala Thr Gly Ala Gly Cys Ala Cys Cys Ala Gly Gly
              9220                  9225                 9230
Cys Cys Cys Cys Ala Cys Cys Thr Thr Thr Gly Thr Cys Cys Cys Cys
         9235                  9240                 9245
Thr Ala Gly Cys Ala Ala Ala Thr Thr Cys Ala Gly Gly Gly Thr Ala
         9250                  9255                 9260
Cys Ala Gly Cys Thr Cys Cys Ala Cys Cys Thr Ala Gly Ala Ala Cys
9265                  9270                 9275                    9280
Cys Ala Gly Gly Cys Thr Gly Cys Cys Cys Thr Cys Thr Ala Cys Thr
              9285                  9290                 9295
Gly Thr Gly Cys Thr Cys Gly Thr Thr Cys Cys Thr Cys Ala Ala Gly
         9300                  9305                 9310
Cys Ala Thr Thr Thr Ala Thr Thr Ala Ala Gly Cys Ala Cys Cys Thr
    9315                  9320                 9325
Ala Cys Thr Gly Gly Gly Thr Gly Cys Thr Gly Gly Gly Thr Thr Cys
    9330                  9335                 9340
Ala Cys Thr Gly Thr Gly Thr Cys Cys Thr Ala Gly Gly Ala Ala Ala
9345                  9350                 9355                    9360
Cys Cys Ala Ala Gly Ala Gly Gly Gly Thr Cys Cys Cys Cys Ala Gly
         9365    .               9370                 9375
Thr Cys Cys Thr Gly Gly Cys Cys Thr Cys Thr Gly Cys Cys Cys Gly
         9380                  9385                 9390
Cys Cys Cys Cys Thr Gly Cys Thr Gly Cys Cys Cys Cys Ala Cys Cys
         9395                  9400                 9405
Ala Cys Cys Thr Thr Cys Thr Gly Cys Ala Cys Ala Cys Ala Cys Ala
    9410                  9415                 9420
Gly Cys Gly Gly Thr Gly Gly Gly Gly Ala Gly Gly Cys Gly Gly Gly
9425                  9430                 9435                    9440
Gly Ala Gly Gly Ala Gly Cys Ala Gly Cys Thr Gly Gly Gly Ala Cys
              9445                  9450                 9455
Cys Cys Ala Gly Ala Ala Cys Thr Gly Ala Gly Cys Cys Thr Gly Gly
         9460                  9465                 9470
Gly Ala Gly Gly Gly Ala Thr Cys Cys Gly Ala Cys Ala Gly Ala Ala
         9475                  9480                 9485
```

23

```
Ala Ala Gly Cys Thr Cys Ala Gly Gly Gly Cys Gly Gly Gly Thr Cys
    9490                9495                9500
Thr Thr Cys Thr Cys Cys Thr Thr Gly Thr Gly Cys Cys Cys Gly Gly
9505                9510                9515                9520
Gly Ala Thr Thr Gly Gly Gly Cys Thr Ala Thr Gly Cys Thr Gly Gly
        9525                9530                9535
Gly Thr Ala Cys Cys Ala Cys Cys Ala Thr Gly Thr Ala Cys Thr Cys
        9540                9545                9550
Ala Gly Gly Cys Ala Thr Gly Gly Thr Gly Gly Gly Thr Thr Thr Thr
        9555                9560                9565
Gly Ala Ala Cys Cys Cys Ala Thr Ala Ala Ala Cys Cys Ala Ala Ala
    9570                9575                9580
Gly Gly Cys Cys Cys Thr Thr Gly Thr Cys Ala Thr Cys Ala Gly Cys
9585                9590                9595                9600
Thr Cys Thr Thr Ala Ala Cys Ala Ala Gly Thr Ala Thr Ala Thr Thr
            9605                9610                9615
Thr Thr Gly Thr Ala Thr Thr Thr Thr Ala Ala Thr Cys Thr Cys Thr
            9620                9625                9630
Cys Thr Ala Ala Ala Cys Ala Thr Ala Thr Thr Gly Ala Ala Gly Thr
        9635                9640                9645
Thr Thr Thr Ala Gly Gly Gly Cys Cys Cys Thr Ala Ala Gly Gly Ala
    9650                9655                9660
Ala Cys Cys Thr Thr Ala Gly Thr Gly Ala Thr Cys Thr Thr Cys Thr
9665                9670                9675                9680
Ala Thr Thr Gly Gly Gly Thr Cys Thr Thr Thr Cys Thr Gly Ala Gly
            9685                9690                9695
Gly Thr Thr Cys Ala Gly Ala Gly Ala Gly Gly Gly Thr Ala Ala Gly
            9700                9705                9710
Thr Ala Ala Cys Thr Thr Cys Cys Thr Cys Cys Ala Gly Gly Thr Cys
        9715                9720                9725
Ala Cys Ala Cys Ala Gly Cys Ala Ala Gly Thr Cys Thr Gly Thr Gly
    9730                9735                9740
Gly Gly Thr Gly Gly Cys Ala Gly Ala Ala Gly Cys Ala Ala Gly Cys
9745                9750                9755                9760
Thr Ala Gly Cys Gly Cys Thr Gly Gly Gly Cys Ala Thr Thr Cys Ala
            9765                9770                9775
Gly Thr Ala Cys Ala Thr Ala Cys Cys Ala Cys Gly Ala Thr Gly Thr
        9780                9785                9790
Gly Cys Thr Cys Cys Cys Thr Cys Thr Cys Thr Thr Gly Ala Thr Gly
        9795                9800                9805
Cys Thr Thr Gly Gly Cys Cys Cys Thr Gly Gly Gly Gly Cys Cys
9810                9815                9820
Thr Thr Cys Ala Gly Gly Gly Cys Thr Thr Thr Gly Gly Gly Ala Cys
9825                9830                9835                9840
Ala Thr Cys Thr Thr Gly Thr Cys Cys Thr Cys Ala Ala Cys Cys Cys
            9845                9850                9855
Thr Cys Thr Cys Cys Cys Thr Ala Gly Ala Thr Cys Ala Gly Thr Cys
        9860                9865                9870
Thr Gly Thr Gly Ala Gly Gly Gly Thr Cys Cys Cys Thr Gly Thr Ala
        9875                9880                9885
Gly Ala Thr Ala Thr Thr Gly Thr Gly Thr Ala Cys Ala Cys Cys Ala
    9890                9895                9900
Thr Gly Cys Cys Cys Ala Thr Gly Thr Ala Thr Ala Thr Ala Cys Ala
9905                9910                9915                9920
Ala Gly Thr Ala Cys Ala Cys Ala Cys Ala Gly Ala Thr Gly Thr Ala
        9925                9930                9935
Cys Ala Cys Ala Cys Ala Gly Ala Thr Gly Thr Ala Cys Ala Cys Ala
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24

```
                  9940                    9945                    9950
Thr Gly Cys Thr Cys Cys Ala Gly Cys Cys Cys Cys Ala Gly Cys Thr
         9955                    9960                    9965
Cys Thr Gly Cys Ala Thr Ala Cys Cys Thr Gly Cys Ala Cys Cys Thr
    9970                    9975                    9980
Gly Cys Ala Cys Cys Cys Cys Ala Gly Cys Cys Thr Thr Gly Gly Cys
9985                    9990                    9995                   10000
Cys Cys Cys Thr Gly Cys Cys Thr Gly Cys Gly Thr Cys Thr Gly Thr
              10005                   10010                   10015
Gly Cys Thr Cys Ala Ala Ala Gly Cys Ala Gly Cys Ala Gly Cys Thr
              10020                   10025                   10030
Cys Cys Ala Ala Cys Cys Cys Thr Gly Cys Cys Thr Cys Thr Gly Thr
         10035                   10040                   10045
Cys Cys Cys Cys Thr Thr Cys Cys Cys Cys Ala Cys Cys Cys Ala Cys
    10050                   10055                   10060                   1
Thr Gly Cys Cys Thr Gly Ala Gly Cys Cys Thr Thr Cys Thr Gly Ala
0065                    10070                   10075                   10080
Gly Cys Ala Gly Ala Cys Cys Ala Gly Gly Thr Ala Cys Cys Thr Thr
              10085                   10090                   10095
Gly Gly Cys Thr Gly Cys Ala Cys Cys Gly Gly Thr Gly Thr Gly Thr
              10100                   10105                   10110
Gly Gly Cys Cys Cys Gly Cys Thr Cys Thr Cys Ala Cys Cys Cys Ala
         10115                   10120                   10125
Gly Gly Cys Ala Cys Ala Gly Cys Cys Cys Cys Gly Cys Cys Ala Cys
    10130                   10135                   10140                   1
Cys Ala Thr Gly Gly Ala Thr Cys Thr Cys Cys Gly Thr Gly Thr Ala
0145                    10150                   10155                   10160
Cys Ala Cys Thr Ala Thr Cys Ala Ala Thr Ala Ala Ala Ala Gly Thr
              10165                   10170                   10175
Gly Gly Gly Thr Thr Thr Gly Thr Thr Ala Cys Ala Ala Ala Gly Cys
              10180                   10185                   10190
Cys Gly Thr Gly Thr Cys Cys Thr Thr Gly Cys Cys Cys Ala Thr Gly
         10195          .          10200                   10205
Thr Gly Thr Ala Thr Thr Thr Thr Thr Thr Gly Thr Ala Thr Thr Thr
    10210                   10215                   10220                   1
Cys Cys Ala Ala Gly Ala Gly Gly Ala Gly Gly Thr Gly Thr Gly Cys
0225                    10230                   10235                   10240
Cys Cys Cys Thr Thr Thr Cys Cys Ala Gly Ala Cys Cys Ala Ala Ala
              10245                   10250                   10255
Gly Cys Thr Gly Gly Cys Cys Thr Thr Thr Cys Cys Cys Thr Cys Cys
         10260                   10265                   10270
Cys Ala Ala Ala Ala Thr Gly Cys Ala Cys Cys Thr Gly Cys Cys Gly
         10275                   10280                   10285
Thr Gly Thr Ala Cys Cys Cys Thr Gly Gly Cys Cys Cys Thr Gly Ala
    10290                   10295                   10300                   1
Gly Gly Gly Thr Cys Ala Gly Cys Ala Cys Thr Gly Ala Gly Thr Cys
0305                    10310                   10315                   10320
Cys Ala Cys Cys Thr Thr Cys Ala Ala Gly Thr Gly Thr Ala Ala Gly
              10325                   10330                   10335
Thr Gly Thr Gly Gly Gly Gly Ala Gly Ala Gly Gly Gly Gly Gly Ala
         10340                   10345                   10350
Thr Ala Ala Gly Thr Cys Cys Cys Cys Cys Ala Gly Ala Thr Gly Gly
         10355                   10360                   10365
Ala Ala Gly Gly Thr Gly Ala Thr Gly Cys Cys Cys Thr Cys Cys Thr
    10370                   10375                   10380                   1
Thr Cys Ala Gly Cys Cys Thr Gly Gly Cys Cys Cys Thr Cys Cys Thr
0385                    10390                   10395                   10400
```

25

Gly Gly Gly Thr Cys Cys Thr Cys Cys Gly Gly Gly Thr Gly Thr Gly
        10405   10410   10415

Thr Gly Thr Ala Cys Cys Gly Ala Gly Gly Thr Gly Thr Cys Thr Gly
        10420   10425   10430

Thr Gly Thr Cys Cys Ala Cys Ala Ala Ala Gly Ala Ala Gly Gly Gly
        10435   10440   10445

Gly Cys Cys Cys Cys Cys Gly Thr Gly Gly Ala Cys Cys Ala Thr Thr
      10450   10455   10460   1

Ala Gly Cys Thr Cys Cys Ala Gly Gly Ala Gly Gly Ala Thr Cys Thr
0465   10470   10475   10480

Cys Cys Gly Thr Gly Thr Cys Thr Gly Ala Gly Thr Thr Cys Thr Thr
        10485   10490   10495

Thr Gly Thr Gly Ala Thr Thr Cys Cys Thr Gly Thr Ala Cys Ala Gly
        10500   10505   10510

Cys Ala Gly Cys Ala Ala Thr Thr Thr Cys Ala Cys Cys Cys Gly Cys
        10515   ·10520   10525

Ala Gly Gly Gly Gly Ala Cys Ala Gly Thr Thr Gly Gly Cys Ala Ala
      10530   10535   10540   1

Thr Cys Thr Cys Thr Gly Gly Ala Ala Ala Cys Cys Thr Thr Thr Thr
0545   10550   10555   10560

Cys Cys Ala Ala Gly Cys Cys Thr Gly Gly Gly Gly Cys Thr Gly Gly
        10565   10570   10575

Gly Gly Cys Thr Gly Cys Thr Ala Cys Thr Cys Thr Cys Ala Thr Cys
        10580   10585   10590

Thr Gly Gly Thr Gly Gly Gly Thr Gly Gly Ala Gly Gly Cys Cys Ala
        10595   10600   10605

Gly Gly Gly Ala Cys Ala Cys Cys Ala Thr Thr Cys Ala Gly Thr Ala
        10610   10615   10620   1

Thr Cys Cys Thr Cys Cys Ala Ala Cys Gly Cys Ala Cys Ala Gly Gly
0625   10630   10635   10640

Ala Thr Gly Cys Cys Cys Cys Thr Cys Cys Ala Cys Cys Cys Cys Cys
        10645   10650   10655

Ala Cys Cys Cys Cys Ala Cys Thr Gly Ala Gly Ala Ala Thr Thr Ala
        10660   10665 ·   10670

Thr Cys Thr Gly Gly Cys Cys Thr Cys Ala Ala Ala Thr Gly Cys Cys
        10675   10680   10685

Ala Ala Gly Cys Gly Thr Gly Gly Gly Cys Ala Gly Cys Cys Thr Thr
      10690   10695   10700   1·

Ala Cys Thr Thr Ala Gly Ala Cys Thr Cys Ala Cys Cys Cys Cys Ala
0705   10710   10715   10720

Gly Gly Gly Gly Cys Thr Gly Gly Gly Ala Cys Ala Cys Gly Cys Cys
        10725   10730   10735

Cys Cys Cys Ala Cys Cys Thr Gly Cys Gly Thr Gly Thr Gly Ala Thr
        10740   10745   10750

Gly Gly Ala Thr Thr Thr Gly Thr Thr Gly Gly Ala Cys Cys Ala Cys
        10755   10760   10765

Ala Thr Thr Cys Thr Gly Gly Ala Cys Gly Gly Ala Ala Cys Cys Cys
      10770   10775   10780   1

Ala Cys Ala Gly Cys Ala Thr Ala Ala Gly Cys Ala Cys Thr Cys Cys
0785   10790   10795   10800

Thr Gly Thr Gly Ala Ala Gly Thr Gly Ala Gly Ala Cys Ala Gly Gly
        10805   10810   10815

Ala Thr Gly Thr Gly Gly Gly Thr Gly Ala Gly Gly Ala Thr Gly Gly
        10820   10825   10830

Ala Ala Ala Gly Thr Gly Gly Ala Gly Gly Cys Thr Gly Ala Gly Gly
        10835   10840   10845

Gly Ala Gly Ala Ala Gly Gly Thr Cys Thr Gly Gly Gly Cys Cys Cys

26

```
      10850              10855              10860                    1
Thr Gly Ala Cys Cys Ala Ala Cys Ala Cys Gly Gly Ala Ala Thr Gly
0865              10870              10875              10880
Thr Gly Cys Cys Cys Cys Cys Thr Gly Gly Gly Ala Cys Thr Gly Ala
            10885              10890              ˙10895
Gly Ala Gly Gly Cys Thr Thr Cys Cys Cys Thr Gly Gly Gly Cys Ala
            10900              10905              10910
Gly Ala Gly Gly Gly Ala Ala Ala Gly Gly Ala Gly Gly Ala Ala Gly
        10915              10920              10925
Thr Cys Ala Gly Thr Gly Ala Gly Gly Thr Ala Ala Ala Ala Thr Ala
        10930              10935              10940                1
Cys Thr Cys Cys Cys Thr Gly Thr Gly Thr Gly Thr Thr Thr Thr Ala
0945              10950              10955              10960
Cys Cys Cys Ala Gly Cys Gly Ala Gly Thr Cys Thr Cys Ala Cys Gly
            10965              10970              10975
Cys Cys Ala Thr Cys Cys Thr Ala Thr Cys Ala Cys Cys Cys Ala Gly
            10980              10985              10990
Cys Cys Cys Cys Gly Ala Gly Gly Gly Ala Ala Gly Cys Cys Cys Ala
            10995              11000              11005
Cys Thr Cys Ala Thr Gly Thr Thr Cys Ala Cys Cys Cys Cys Ala Thr
    11010              11015              11020                    1
Cys Thr Gly Ala Gly Cys Ala Thr Thr Thr Ala Gly Gly Cys Thr Cys
1025              11030              11035              11040
Ala Gly Ala Gly Ala Gly Cys Thr Cys Ala Ala Thr Ala Thr Cys Thr
            11045              11050              11055
Thr Gly Thr Cys Cys Ala Ala Gly Ala Thr Gly Gly Cys Ala Cys Ala
        11060              11065              11070
Gly Cys Thr Gly Gly Thr Gly Ala Ala Gly Thr Gly Gly Cys Ala Gly
        11075              11080              11085
Ala Thr Cys Ala Gly Ala Gly Ala Thr Thr Cys Ala Ala Cys Ala Cys
    11090              11095              11100                    1
Cys Ala Gly Ala Gly Gly Cys Thr Gly Thr Cys Thr Gly Ala Thr Thr
1105              11110              11115              11120
Thr Cys Cys Gly Thr Cys Thr Gly Gly Cys Thr Gly Ala Ala Gly Ala
            11125              11130              11135
Ala Ala Gly Ala Thr Thr Thr Thr Gly Cys Ala Thr Cys Ala Gly Gly
        11140              11145              11150
Gly Ala Gly Gly Thr Gly Gly Ala Ala Ala Cys Cys Ala Thr Cys Thr
        11155              11160              11165
Gly Thr Gly Cys Thr Thr Thr Thr Gly Ala Thr Cys Ala Gly Cys Ala
    11170              11175              11180                    1
Ala Ala Thr Gly Cys Cys Ala Cys Cys Ala Gly Cys Ala Gly Gly Ala
1185              11190              11195              11200
Thr Cys Ala Gly Gly Gly Ala Gly Cys Cys Ala Gly Gly Cys Cys Ala
            11205              11210              11215
Thr Ala Ala Ala Gly
        11220


<210> 4
<211> 266
<212> PRT
<213> Human

<400> 4
Met Met Lys Thr Leu Ser Ser Gly Asn Cys Thr Leu Ser Val Pro Ala
 1                   5                   10                  15
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27

Lys Asn Ser Tyr Arg Met Val Val Leu Gly Ala Ser Arg Val Gly Lys
                20   25   30
Ser Ser Ile Val Ser Arg Phe Leu Asn Gly Arg Phe Glu Asp Gln Tyr
            35   40   45
Thr Pro Thr Ile Glu Asp Phe His Arg Lys Val Tyr Asn Ile Arg Gly
        50   55   60
Asp Met Tyr Gln Leu Asp Ile Leu Asp Thr Ser Gly Asn His Pro Phe
65   70   75   80
Pro Ala Met Arg Arg Leu Ser Ile Leu Thr Gly Asp Val Phe Ile Leu
                85   90   95
Val Phe Ser Leu Asp Asn Arg Glu Ser Phe Asp Glu Val Lys Arg Leu
                100   105   110
Gln Lys Gln Ile Leu Glu Val Lys Ser Cys Leu Lys Asn Lys Thr Lys
            115   120   125
Glu Ala Ala Glu Leu Pro Met Val Ile Cys Gly Asn Lys Asn Asp His
    130   135   140
Gly Glu Leu Cys Arg Gln Val Pro Thr Thr Glu Ala Glu Leu Leu Val
145   150   155   160
Ser Gly Asp Glu Asn Cys Ala Tyr Phe Glu Val Ser Ala Lys Lys Asn
                165   170   175
Thr Asn Val Asp Glu Met Phe Tyr Val Leu Phe Ser Met Ala Lys Leu
            180   185   190
Pro His Glu Met Ser Pro Ala Leu His Arg Lys Ile Ser Val Gln Tyr
        195   200   205
Gly Asp Ala Phe His Pro Arg Pro Phe Cys Met Arg Arg Val Lys Glu
    210   215   220
Met Asp Ala Tyr Gly Met Val Ser Pro Phe Ala Arg Arg Pro Ser Val
225   230   235   240
Asn Ser Asp Leu Lys Tyr Ile Lys Ala Lys Val Leu Arg Glu Gly Gln
                245   250   255
Ala Arg Glu Arg Asp Lys Cys Thr Ile Gln
                260   265

<210> 5
<211> 266
<212> PRT
<213> Rattus norvegicus

<400> 5
Met Met Lys Thr Leu Ser Ser Gly Asn Cys Thr Leu Asn Val Pro Ala
1   5   10   15
Lys Asn Ser Tyr Arg Met Val Val Leu Gly Ala Ser Arg Val Gly Lys
                20   25   30
Ser Ser Ile Val Ser Arg Phe Leu Asn Gly Arg Phe Glu Asp Gln Tyr
            35   40   45
Thr Pro Thr Ile Glu Asp Phe His Arg Lys Val Tyr Asn Ile His Gly
        50   55   60
Asp Met Tyr Gln Leu Asp Ile Leu Asp Thr Ser Gly Asn His Pro Phe
65   70   75   80
Pro Ala Met Arg Arg Leu Ser Ile Leu Thr Gly Asp Val Phe Ile Leu
                85   90   95
Val Phe Ser Leu Asp Ser Arg Glu Ser Phe Asp Glu Val Lys Arg Leu
                100   105   110
Gln Lys Gln Ile Leu Glu Val Lys Ser Cys Leu Lys Asn Lys Thr Lys
            115   120   125
Glu Ala Ala Glu Leu Pro Met Val Ile Cys Gly Asn Lys Asn Asp His

28

```
          130                 135                 140
Ser Glu Leu Cys Arg Gln Val Pro Ala Met Glu Ala Glu Leu Leu Val
145                 150                 155                 160
Ser Gly Asp Glu Asn Cys Ala Tyr Phe Glu Val Ser Ala Lys Lys Asn
                165                 170                 175
Thr Asn Val Asn Glu Met Phe Tyr Val Leu Phe Ser Met Ala Lys Leu
                180                 185                 190
Pro His Glu Met Ser Pro Ala Leu His His Lys Ile Ser Val Gln Tyr
            195                 200                 205
Gly Asp Ala Phe His Pro Arg Pro Phe Cys Met Arg Arg Thr Lys Val
        210                 215                 220
Ala Gly Ala Tyr Gly Met Val Ser Pro Phe Ala Arg Arg Pro Ser Val
225                 230                 235                 240
Asn Ser Asp Leu Lys Tyr Ile Lys Ala Lys Val Leu Arg Glu Gly Gln
                245                 250                 255
Ala Arg Glu Arg Asp Lys Cys Ser Ile Gln
                260                 265
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